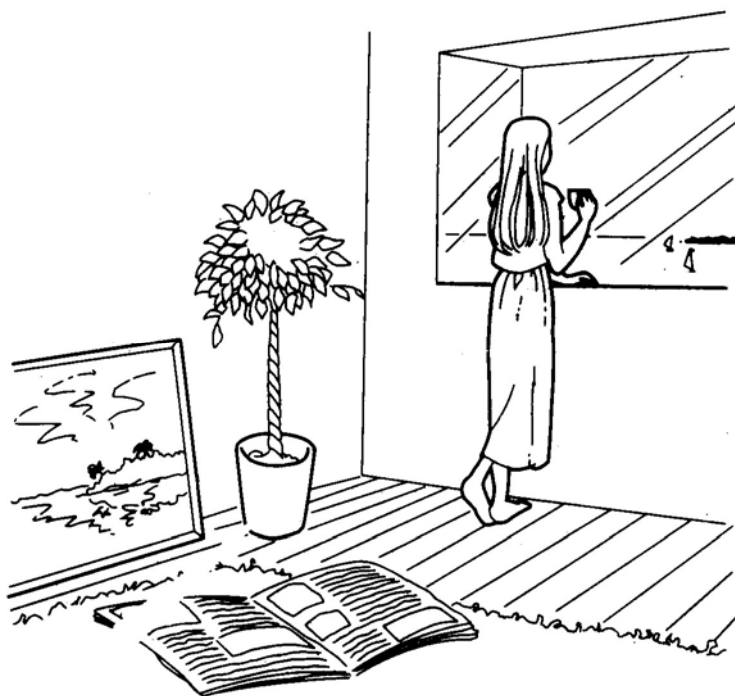


HITACHI
Inspire the Next

INSTRUCTION MANUAL

Rear Projection Color TV

C47-WD8000
C57-WD8000



- Thank you for your purchasing **HITACHI** projection TV products.
- In order to use the Rear Projection TV properly, please read this instruction manual carefully before using it.

CONTENTS

SAFETY TIPS	3
BEFORE USING THIS REAR PROJECTION TV	7
Note	7
Location	7
The best spot for viewing	7
Connect the power cord and the antenna	8
Insert the batteries	8
FUNCTIONAL PARTS	9
Control panel and side panel	9
Rear panel	10
On the remote control unit	11
GETTING STARTED	12
Power on/off	12
Instructions for operating menu	13
Selecting the on-screen display language	14
Easy Preset	15
ON-SCREEN DISPLAY MENU	16
Picture Menu	16
Audio Menu	18
Timer Menu	19
Function Menu	20
Setup Menu	23
MAGIC FOCUS	32
MULTI PICTURE	33
Split	33
P in P	34
CH SURF FUNCTION	36
Mode 3	36
Mode 12	37
BRIDGE MEDIA FUNCTION	38
AV NET	42
TELETEXT	53
ASPECT MODE	54
OTHER FUNCTIONS	57
CONNECTION WITH OTHER EQUIPMENT	60
Jacks and connections of side panel	60
Jacks and connections of rear panel	62
About the jacks and connections of rear panel	65
ADDENDA	66
A guide to simple problem solving	66
Accessories	66
Specifications	67

SAFETY TIPS

In order to use this TV safely, you must pay attention to the notice shown below.



This symbol indicates forbidden actions.



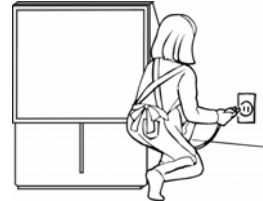
This symbol indicates additional cautions (including warning).



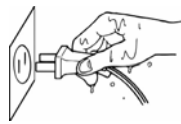
This symbol indicates required actions.

Refer to the Power Supply as indicated on the rating label pasted at the back of the TV set.

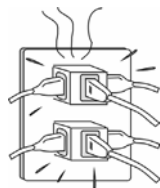
Do not use the TV outside the specified voltage range. It may cause a fire or an electric shock.



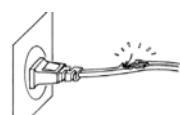
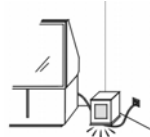
Never insert or remove the power plug with wet hands. This may cause electric shock.



- Do not overload wall outlets and extension cords as this can result in fire or electric shock.



- Do not place any objects on the cord or allow it to overpass. If the cord or plug is damaged, please cut power supply immediately, then contact a service technician for inspection.



- Do not apply excessive force to the power cord.
- Do not allow the power cord to overheat as this may cause damage.
- Do not pull on the power cord when removing the plug from the outlet, please hold the plug firmly when removing it.

- Do not place the TV into a closet or bookshelf where the ventilation is poor.
- Do not cover the TV with cloth or other objects.
- Do not place the TV with its screen facing upwards, or on its side. Allow sufficient space between the TV and walls.

Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the buildup of heat inside the TV, or else, it may result in a malfunction.



- Do not place the TV on an unstable cart, stand or table.
- Do not place the TV in an unstabilized location such as on a bed, sofa, etc.
- Do not use the TV in locations exposed to high humidity levels such as close to a bathtub, washbowl, kitchen, washing machine, swimming pool or moisture, etc.

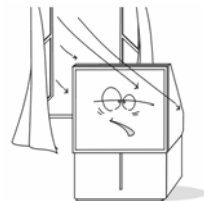
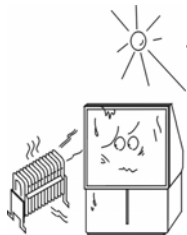
Please always keep the TV in a dry place. If the TV gets damp, it may cause a malfunction.



SAFETY TIPS

- **Do not place the TV near heat source (such as a radiator, stove etc.) or a place where sunlight shines directly on the screen.**

Overheating will cause failure of the TV.



- **Do not place the TV in a dusty place or exposed to rain.**
Since accumulated dust inside the chassis may cause failure of the set when high humidity persists.

- **Do not place containers filled with liquids or other objects, e.g. house plant, vase, tea sets, etc.**

In case liquids are spilled inside the TV, please remove the plug from the wall outlet immediately and contact a service technician.

In addition, if rubber or vinyl products remain in contact with the cabinet or screen of the TV for a long time, the TV surface may get damaged or a stain may result.



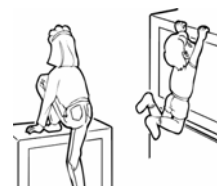
- **Do not insert objects or pour water inside the TV from ventilation holes and other slots.**

Be especially careful that children do not insert objects in the TV, such as coins, nails, clips, toys, etc.
If these objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.



- **Do not climb or sit on top of the TV.**

Do not stand or hang on the TV.
It may result in the TV falling over, damaging, the screen broken etc. or causing an injury.



- **Avoid any kind of impact to your television.**

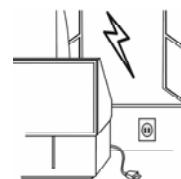
Be especially careful not to damage the screen face.

- **Do not attempt to touch the screen, marks may result.**



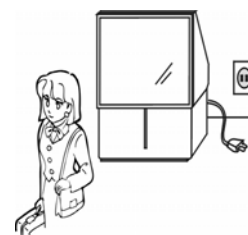
SAFETY TIPS

- In order not to damage the parts in the set, please unplug and remove the outdoor antenna connection during lightning storms.



- When going out or your TV is set to remain unused for a long periods of time, please turn off the television and unplug it from the wall outlet.

Accumulated dust on the plug or the humidity may cause a fire or electric shock due to reduced insulation on it. So when the TV won't be used for a long period of time, be sure to remove the power plug from the wall outlet.



- Do not disassemble, repair or modify the TV by yourself.

To prevent shock, disassembling the cabinet or touching the parts inside the TV by other than professional person is prohibited.



Precautions when moving

- When moving the TV, be sure to remove the plug from the wall outlet and disconnect the aerial cable, audio/video cable.
- As this TV is heavy, wherever it is moved, at least two people are required to transport it safely.
- Do not move the TV forcefully as it may leave scratch marks on the floor.
- Be careful when moving the TV. Avoid any bumps onto the screen.

Cleaning

1. Before cleaning the TV, remove the power plug from the wall outlet.
2. Do not use solvents such as volatile substances, diluent to clean the TV. These solvents may distort the cabinet and screen or damage its finish.
3. Do not use vacuum cleaner, polish, sand paper to clean the cabinet or screen of the TV.
4. If accumulated dust cover the cabinet or screen, please use a soft, dry cloth to clean.
5. Do not directly use liquid or an aerosol sprays to clean the cabinet of the TV.
6. Do not use the detergent directly on the TV if it is dirty.
 - Please use a clean soft cloth moistened with water to clean it.
 - Then wipe with a dry soft cloth.



SAFETY TIPS

Moisture Condensation

If the room temperature suddenly rises or falls (e.g. the TV is moved from a cool place to a warm place), condensation may occur on the screen or lenses resulting in picture fading or color distortion.

In such case, please wait a while for the condensation to evaporate. The sound and picture will be restored to normal.



• Precautions on stationary images

This TV is designed to watch 16:9 (widescreen) picture. If you watch TV programs, please select such proportional active images, or by setting the aspect mode to display such proportional active images on your screen.

Avoid displaying stationary images on your screen for an extended period of time. Some bright and stationary patterns generated by computer displays, video games or multi window, etc. can cause permanently ingrained on the picture tube. Should you wish to display still images, it is always advisable to reduce the brightness and contrast settings.

This damage is not protected by your warranty as it is the result of misuse.

Maintenance



- If the set does not work properly, and you are unable to restore normal operation by following the “A guide to simple problem solving” section in your Instruction Manual, please unplug the set and consult service personnel.
- If the TV is dropped or the cabinet is damaged, remove the power plug immediately and contact a service technician for inspection.
- If there are smoke or strange smell from the TV, please remove the power plug from the wall outlet immediately and contact a service technician for inspection.

BEFORE USING THIS REAR PROJECTION TV

Note

This is not an integrated digital TV. To watch digital broadcast programs (if available), you have to purchase a Digital Set-Top Box that will receive and decode digital broadcast signals and input to the TV via the component input terminals.

Location

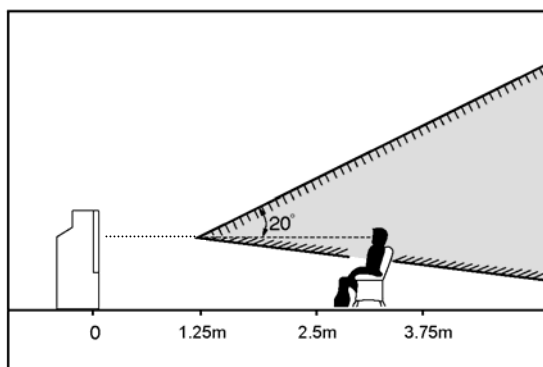
Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set.

Do not place the TV where temperature is excessively high, for example in direct sunlight or near a heating appliance, etc.

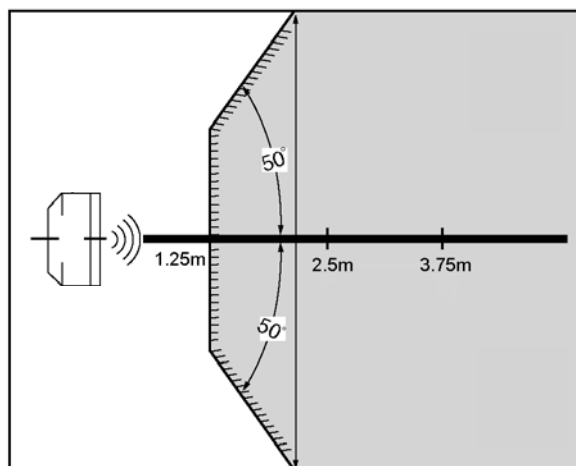
The best spot for viewing

The major benefit of the TV is its large viewing screen. To see this large screen at its best, please test various locations in the room to find the best spot for viewing. The following gives some suggestions.

The best picture and audio performance are obtained directly in front of the TV and about 2.5 to 4.5 meters from the screen. Picture brightness decreases as the viewer moves to left and right of the receiver.



Best vertical viewing angle



Best horizontal viewing angle

Note: Do not put magnetism source such as external stereo system close to the TV, as the picture distortion may occur under magnetism from the speakers. Please move the stereo system in locations where the picture will not be affected.

BEFORE USING THIS REAR PROJECTION TV

Connect the power cord and the antenna

Please read the rating label pasted at the back of the TV set carefully, and then insert the plug into the power outlet conformity to the rating label. Optimum reception requires that an outdoor aerial or CATV system must be used. Meanwhile, please note that a good antenna adaptor is necessary. See the following diagram.



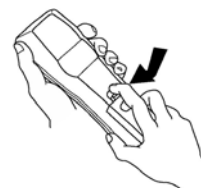
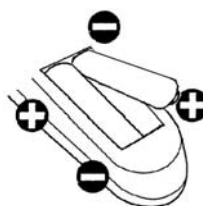
Precautions when connecting the antenna

- ① When you use an outdoor antenna instead of CATV system, avoid erecting in locations where there are elevated wires or other electrical circuit.
- ② When choosing an outdoor antenna make sure the groundings are correct.
- ③ Please use a coaxial cable that is free from interference to connect the antenna. Avoid using a parallel feeder wire as interference may occur, causing reception to be unstable and stripe noise to appear on the screen. For safety, install an external aerial conformity to AS 1417.1(in Australia only).
- ④ Clamp section A using pliers when installing the coaxial cable. If other types of adaptors are used, be sure that the core and shielding are good.
- ⑤ Avoid using indoor aerial as this may be affected by interference.
- ⑥ Keep the power cord as far away from the antenna wire as possible.

Insert the batteries

Insert the batteries into the remote control unit. Under normal use, the life of the batteries is approximately one year.

- ① Open the battery cover of the remote control unit by pushing the notched part of the cover with your fingers.
- ② Insert the batteries, paying special attention to their polarities.
- ③ Replace the cover.



Precautions when using the batteries

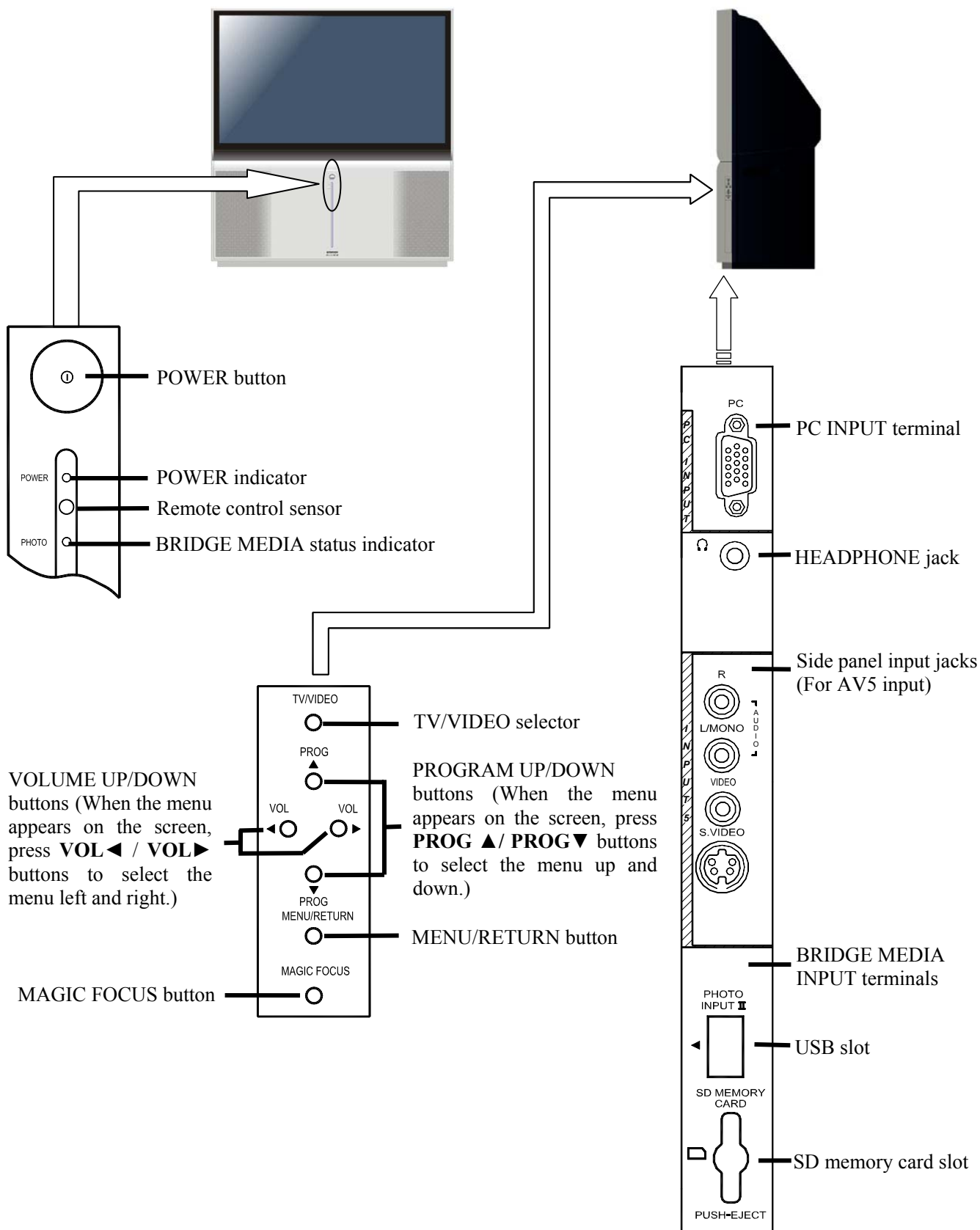
- ① Do not use old and new batteries together.
- ② Do not use different types of batteries (for example, Manganese and Alkaline batteries) together.
- ③ Remove the batteries from the remote control unit if you do not intend to use the unit for long periods of time. Otherwise the batteries may leak and cause damage.
- ④ Do not throw the batteries into the fire.

Precautions when using the remote control unit

- ① Do not drop the remote control unit or subject it to physical shocks.
- ② Keep the remote control unit dry. Wetting it may cause the unit to malfunction.
- ③ Replace the batteries with new ones when the operating range of the unit is shortened.

FUNCTIONAL PARTS

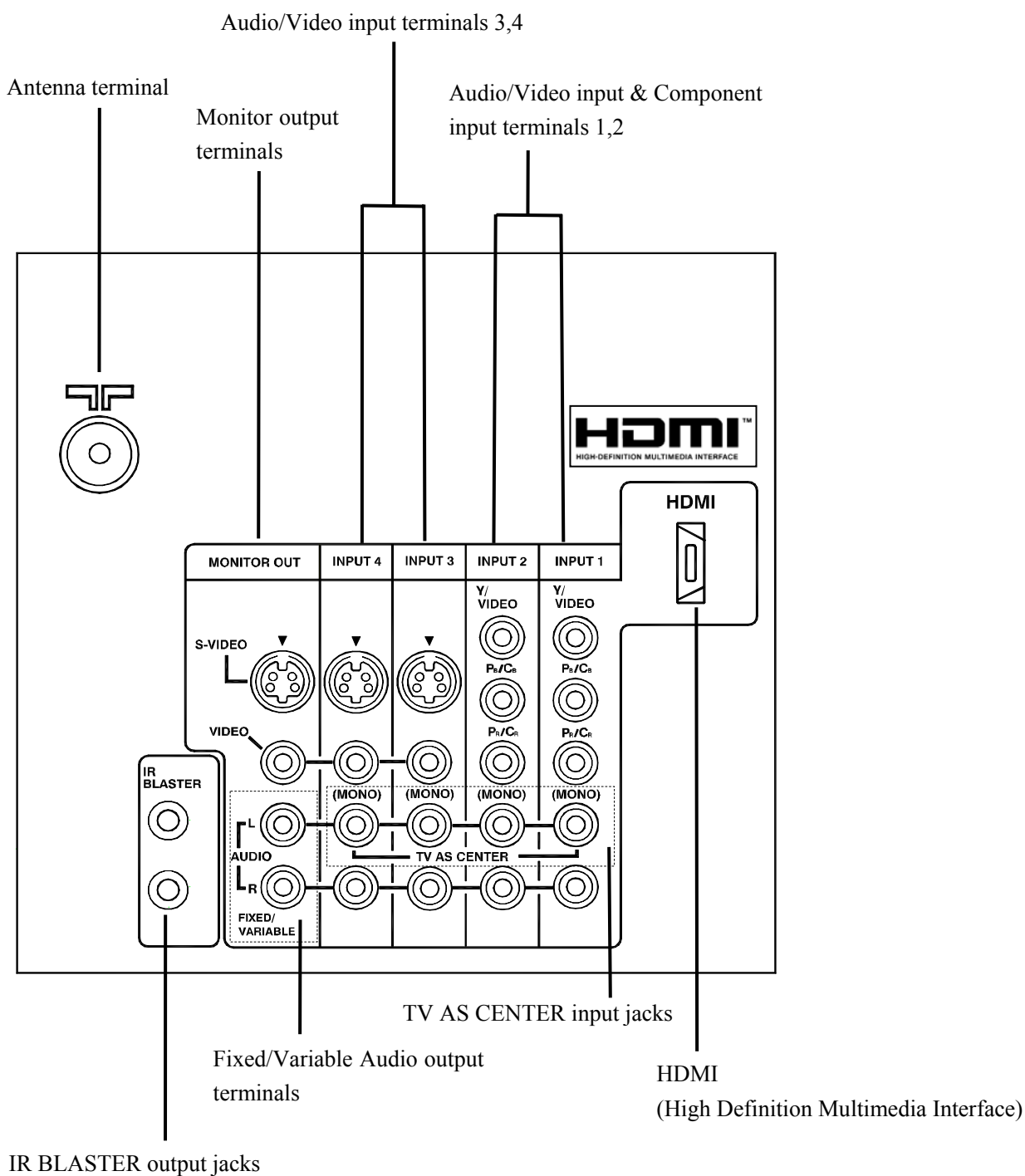
Control panel and side panel



Note: Before using these input jacks, please refer to the INSTRUCTION MANUAL on page 38,60 and 61.

FUNCTIONAL PARTS

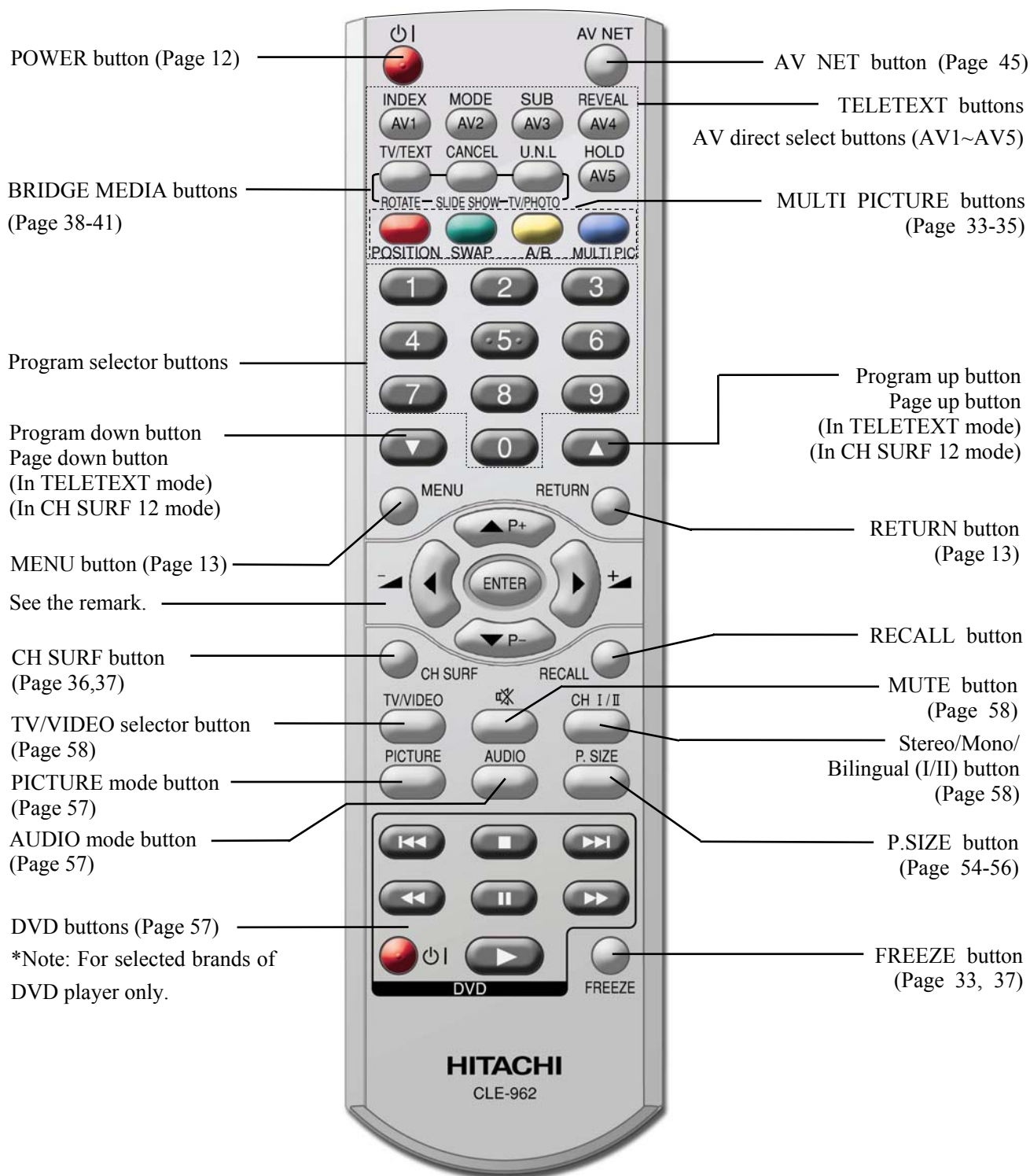
Rear panel



Note: Before using these rear panel jacks, please refer to the INSTRUCTION MANUAL on page 62-65.

FUNCTIONAL PARTS

On the remote control unit



Remark:

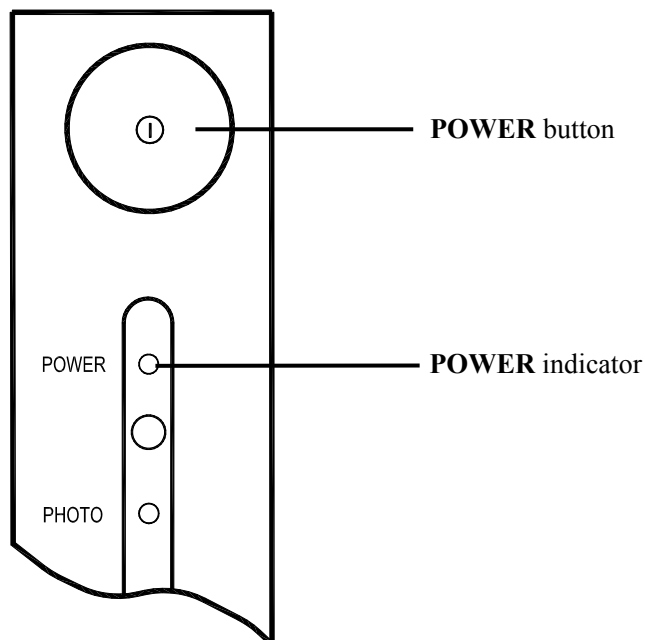
The **ENTER** button is used to set or confirm MENU, please see page 13 for details. The **▲P+**, **▼P-**, **◀-**, **▶+** buttons are used as up, down, left and right cursor buttons. Alternatively, **▲P+** / **▼P-** can be used as program up and down buttons and **◀-** / **▶+** as volume down and up buttons. The characters “**▲** **▼** **◀** **▶** cursor” shown in this instruction manual will be referring to the **▲P+**, **▼P-**, **◀-**, **▶+** buttons.

GETTING STARTED


Power on/off


TO TURN ON THE POWER

Press the **POWER** button on the TV set. The power indicator will light up to indicate that the power is on.



WHEN THE SET IS AT STANDBY

The TV will be in standby mode and the blue power indicator becomes dimmer if the TV set is turned off using the  button on the remote control unit. This indicates that the TV is not powered off completely and is in low power consumption mode, waiting for your new command at anytime.

You can turn on the TV set using the  button on the remote control unit. The picture will appear in a few seconds. You can also press the **PROG ▲** / **PROG ▼** buttons on the side panel to turn it on.

TO TURN OFF THE POWER

Press the **POWER** button on the TV set to turn off it. The power indicator will go off.



CAUTION: If you are not going to use this set for a long time, turn off the set using the **POWER** button on the TV set and disconnect the plug from the power outlet.











GETTING STARTED

Instructions for operating menu

- Before watching the TV, please familiarize yourself with this method to use the menu function of this TV.
- Instructions in this manual are based on using the remote control unit. The words or symbols with frames refer to the buttons on the remote control unit.
- The Chinese characters on the TV screen are supplied by Rico Company. The logos and symbols used in this instruction manual are intended for explanation purposes, they might differ from those shown on the TV.

1. **Menu:** After the power is on, press the **MENU** button to enter the menu screen which shows a list of optional main adjustment items, such as **Picture**, **Audio**, **Timer**, etc.
2. **Adjustment items:** After a main adjustment item is “selected” and “entered”, the screen will enter into the selection and show a list of related optional sub-adjustment items. After a sub-adjustment item is “selected” and “entered”, it may enter the next stage of sub-menu display until the last stage of the adjustment item is entered. When an adjustment item is selected, the characters of the adjustment item will be highlighted and usually accompanied with a ► mark.

Common symbols in menu display

	Symbols	Description
1	 Select	This symbol is displayed at the bottom of the menu, indicating that you can select the adjustment item on the menu by pressing the  or  cursor buttons on the remote control unit.
2	 Set	This symbol is displayed at the bottom of the menu, indicating that you can enter the adjustment item highlighted by pressing the ENTER button on the remote control unit.
3	 Set	This symbol is displayed at the bottom of the menu, indicating that you can adjust the selected item by pressing the  or  cursor buttons on the remote control unit.
4	①-⑨ Set	This symbol is displayed at the bottom of the menu, indicating that you can enter the number you desired when pressing the number buttons ( – ) on the remote control unit.
5	Reset	The characters Reset is displayed in the menu, indicating that you can return the current menu setting to the factory default setting by pressing the ENTER button on the remote control unit.
6	 Return	This symbol is displayed on the menu, indicating that you can return to the previous page by pressing the RETURN button on the remote control unit.

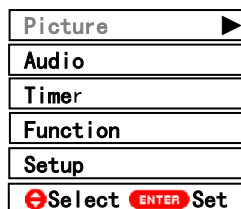
3. You can stop and exit from the menu operation by pressing the **MENU** button anytime. If there is no operation in the menu after some times, it will automatically exit from the menu screen..
4. If the item in the menu is shown in grey, it means that it cannot be adjusted.

GETTING STARTED

Selecting the on-screen display language

You can choose from two different languages (Chinese and English) for the on-screen displays. When necessary, you may change the displayed language following the procedures below.

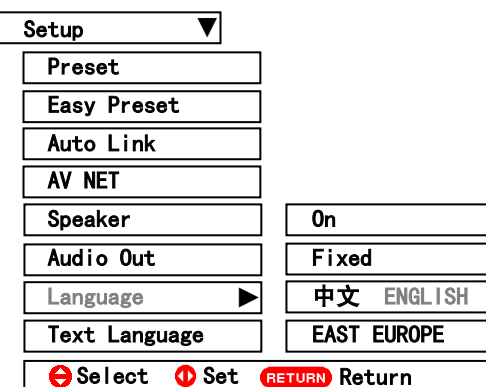
- 1 Press the **MENU** button to display menu as shown on the right.



- 2 Press the **▲▼** cursor buttons to select the **Setup** option as shown on the right.



- 3 Press the **ENTER** button to enter the **Setup** menu.
Press the **▲▼** cursor buttons to select the **Language** option (shown on the right), then press the **◀▶** cursor buttons to select the desired language: **中文(CHINESE)** or **ENGLISH**.



- 4 Press the **RETURN** button to return to the previous screen, or press the **MENU** button to quit.

GETTING STARTED

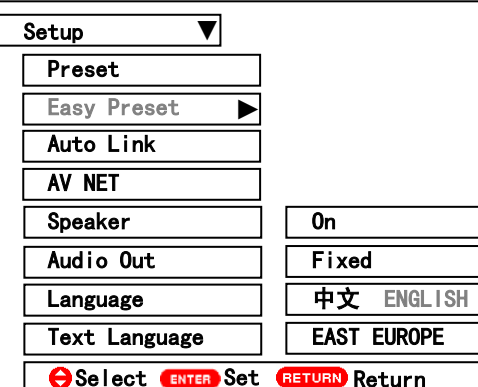
Easy Preset

It becomes convenient for the customers to program the TV using the remote control unit and detailed OSD of the TV set. Please follow the procedures below to start tuning.

- 1 Press the **MENU** button to display menu. Press the **▲** **▼** cursor buttons to select the **Setup** option.



- 2 Press the **ENTER** button to enter the **Setup** menu. Press the **▲** **▼** cursor buttons to select the **Easy Preset** option.

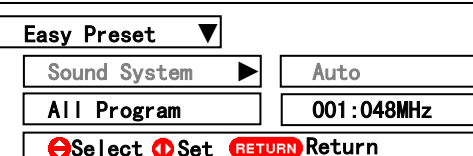


- 3 Press the **ENTER** button to enter the **Easy Preset** menu. Press the **▲** **▼** cursor buttons to select the **Sound System** option, then press the **◀** **▶** cursor buttons to select the required sound system in your area or set it to the **Auto** mode (shown on the right).

Now press the **▲** **▼** cursor buttons to select the **All Program** option, then press the **ENTER** button to begin the auto tune procedure. The character **Searching** appears at the bottom of menu, and the TV will begin the auto search procedure and store all signals available in the area or CATV.

You can interrupt it by pressing the **ENTER** button in the process of searching.

The set will exit menu display mode automatically after searching is finished.



Notes: (1) If you want to arrange the programs obtained by **All Program**, please refer to the **Tuning** section on page 23.

(2) If your equipment (such as VCR, GAME MACHINE) only has RF output, connect it with RF cable into the antenna input of the TV set, and refer to the **Tuning** section on page 23 for presetting.

(3) When you are in video mode (AV1, AV2, etc.), accessing the **Easy Preset** menu will enable the TV to switch to RF mode automatically. This is normal.

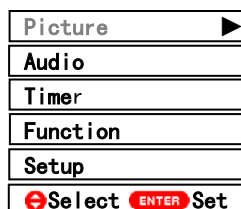
ON-SCREEN DISPLAY MENU 【PICTURE MENU】

Picture Menu

Picture menu allows you to adjust various picture settings such as brightness, color, contrast and sharpness. You can also adjust the settings for color temperature, dynamic contrast, etc. Please follow the steps below.

1 Press the **MENU** button to display menu.

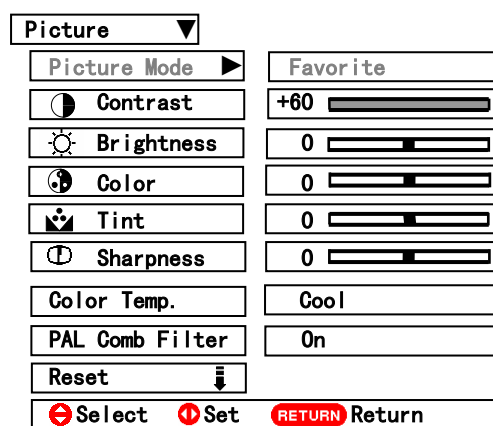
Press the **▲** **▼** cursor buttons to select the **Picture** option as shown on the right.



2 Press the **ENTER** button to display the **Picture** menu as shown on the right.

This is the first page in the **Picture** menu, providing 4 different picture modes (**Dynamic**, **Natural**, **Theater**, **Favorite**). Press the **◀** **▶** cursor buttons to select. We suggest that you try every item to obtain the desired picture effect.


To set the picture effect you desired, press the **▲** **▼** cursor buttons to select the item to be adjusted, and then press the **◀** **▶** cursor buttons to adjust.







Notes:



- (1) Press the **PICTURE** button on the remote control unit, you can switch among the above four picture modes easily.
- (2) Only when receiving NTSC signals or Y, Pb/Cb, Pr/Cr inputs or HDMI input, the **Tint** option can be adjusted.
- (3) Only when receiving PAL system, the **PAL Comb Filter** option can be set to **On** or **Off**; when receiving other systems, the comb filter is automatically set.
- (4) If the **Reset** option is selected and confirmed by pressing the **ENTER** button, the current setting on the menu will return to the factory setting.
- (5) For **AV1~AV5** inputs, different picture modes can be set individually.

ON-SCREEN DISPLAY MENU 【PICTURE MENU】

3 Press the  cursor button until the second page in the **Picture** menu appears as shown on the right. These settings allow you to enhance or improve the visual condition of the picture.























Picture ▼	
Film Mode 	On
Noise Reduction	Low
VM	Off
Dynamic Contrast	On
Black Stretch	Low
CTI	Low
Color Manager	
Reset	
 Select  Set  Return	





Notes: (1) If **Noise Reduction** is set to **High** or **Low**, the **Sharpness** option cannot be adjusted.
 (2) While **Film Mode** is on, your projection TV will activate the circuitry for special feature to improve the video performance when viewing film based sources.
 (3) When **HD** or **Progressive** signals are input, **Film Mode** option cannot be adjusted.









4 Repeatedly press the  cursor button as shown on the top right to select the **Color Manager** option, then press the  cursor button to display the menu as shown on the right.

When the **Color Manager** option shown on the right is set to **On**, you can adjust and balance their individual color for your personal preference to obtain the deeper and purer color effect.

If the option of **Reset** was selected and press the **ENTER** button, the **Color Manager** menu will return to factory default setting.

Color Manager ▼	
Color Manager 	On
	(Phase) (Gain)
 Magenta	0  0 
 Red	0  0 
 Yellow	0  0 
 Green	0  0 
 Cyan	0  0 
 Blue	0  0 
Reset	
 Select  Set  Return	

Each color in the menu provides two options (Phase and Gain). Press the   cursor buttons to select the adjustment item, and then press the   cursor buttons to adjust.

 Phase 	0 
 Gain	+31 
 Select  Set  Return	

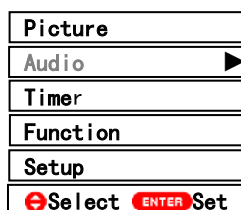
ON-SCREEN DISPLAY MENU 【AUDIO MENU】

Audio Menu

Audio menu allows you to adjust various sounds settings such as treble, bass, balance and headphone volume. You can also adjust the settings for surround effect, perfect volume, etc. Please follow the steps below.

1 Press the **MENU** button to display menu.

Press the **▲** **▼** cursor buttons to select the **Audio** option as shown on the right.

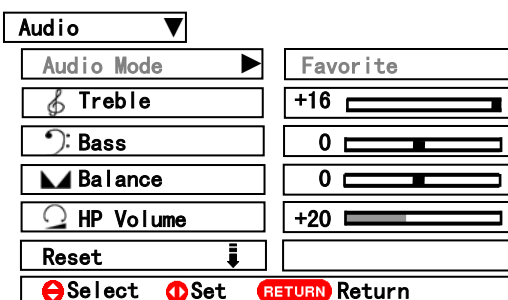


2 Press the **ENTER** button to display the **Audio** menu as shown on the right.

This is the first page in the **Audio** menu, providing 4 different audio modes (**Theater**, **Music**, **Narration** and **Favorite**). Press the **◀** **▶** cursor buttons to select. We suggest that you try every item to obtain the desired sound effect.

To set the sound effect you desired, press the **▲** **▼** cursor buttons to select the item to be adjusted, then press the **◀** **▶** cursor buttons to adjust.

During the process of adjustment, the indicator will move left or right, allowing you to know the state of adjustment.



Note:

Press the **AUDIO** button on the remote control unit, you can switch among the above four audio modes easily.

3 Press the **▼** cursor button until the second page in the **Audio** menu appears as shown on the right. These settings allow you to enhance or improve the sound effect.

Note:

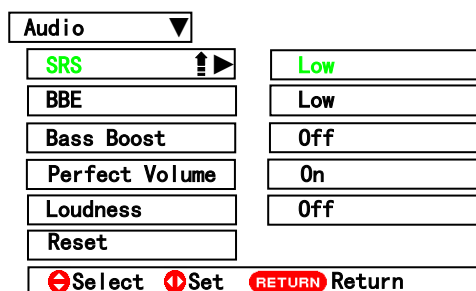


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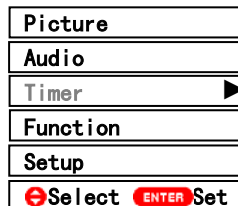


ON-SCREEN DISPLAY MENU 【TIMER MENU】

Timer Menu

The **Timer** function for this TV uses a countdown timer system. It features **On Timer**, **Off Timer** and **Auto Off**.

1 Press the **MENU** button to display the menu.
Press the **▲** **▼** cursor buttons to select the **Timer** option as shown on the right.

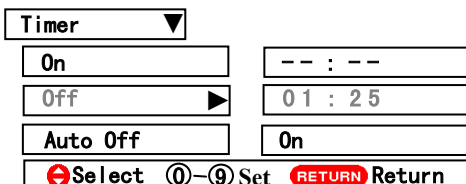


2 Press the **ENTER** button to enter the **Timer** menu as shown on the right.
The adjustment items are shown below:

Off Timer

Example: To turn off after 1 hour and 25 minutes.

Press the **▲** **▼** cursor buttons to select the **Off** option. Press number buttons to enter the specified amount of time (the maximum time is 23:59), input the hour, then input the minute, i.e. 01:25 (shown on the right). Timer starts countdown after quitting the **Timer** menu. After 1 hour and 25 minutes, the TV will go into standby mode.



Note: As a precautionary measure, after setting **Off Timer**, if the power is turned off or power supply is cut off accidentally before the set time elapses, the TV will be in standby mode when you restart the TV.

On Timer

The setting of **On Timer** is similar to that of **Off Timer**. After **On Timer** is set, please turn off the TV by pressing the **⏻** button on the remote control unit to start the countdown, the power indicator on the front of the TV will be blinking. This is normal. The power is turned on when the set time has elapsed.

Notes: 1) If turning off the power using the **POWER** button on the front panel, **On Timer** will not work.

2) If the power is turned off by pressing the **POWER** button on the front panel before the set time elapses or the power supply is cut off accidentally, the TV will be in standby mode when you restart the TV.

3) As a precautionary measure, if there is no operation for 2 hours after the power is turned on by the **On Timer** function, the TV will go into standby mode automatically.

Auto Off

If **Auto Off** is set to **On** and there is no more broadcasting transmission (i.e. no signal is detected), the TV will go into standby mode automatically after 60 minutes. If **Auto Off** is set to **Off**, this function will be cancelled.

Notes: 1) **Auto Off** is only valid if no signal transmission is received from the antenna terminals.

2) If Within 60 minutes after no signal is detected, switching TV to any channel with signal will cancel the **Auto Off** function.

ON-SCREEN DISPLAY MENU 【FUNCTION MENU】

Function Menu

Function menu allows you to select scan mode, decorative light on the front panel and multi picture mode, etc. Please follow the steps below.

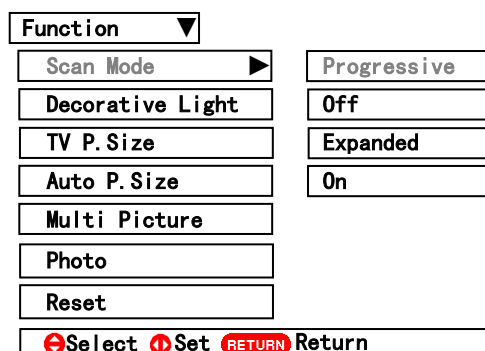
1 Press the **MENU** button to display the menu.

Press the **▲ ▼** cursor buttons to select the **Function** option as shown on the right.



2 Press the **ENTER** button to enter the **Function** menu.

Press the **▲ ▼** cursor buttons to select the **Scan Mode** option as shown on the right.



3 Press the **ENTER** button to enter the **Scan Mode** menu as shown on the right.

You can press the **◀ ▶** cursor buttons to select different scan modes to improve picture effect.

(1) For **PAL** or **SECAM** system, you can select scan mode from **100Hz**, **Virtual HD** or **Progressive**.

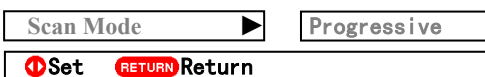
(2) For **NTSC** system, you can select scan mode from **Virtual HD** or **Progressive**.

(3) When the input signal format is **480p** signal, the scan mode setting will be fixed at **Progressive**.

(4) When the input signal format is **576p** signal, you can select scan mode from **100Hz** or **Progressive**. The **100Hz** mode can eliminate flicker.

(5) When the input signal format is **1080i/60** or **720p/60** HD signal, the scan mode setting will be fixed at **HD**.

(6) When the input signal format is **1080i/50** HD signal, you can select scan mode between **100Hz** or **HD**. The **100Hz** mode can eliminate flicker.



4 If the **Decorative Light** option on the **Function** menu is selected, you can turn the blue lighting on the control panel **On** or **Off**. When the TV is in standby or the power is off, the lighting on the front panel will be off.

ON-SCREEN DISPLAY MENU 【FUNCTION MENU】

5 Follow the steps on page 20 to enter the **Function** menu and select the **TV P.Size** option as shown on the right.

Press the ◀ ▶ cursor buttons to set the **TV P.Size** option to **Expanded**, **4:3** or **16:9** mode.

Note: Please refer to page 54-55 for information on this function.

Function ▼	
Scan Mode	Progressive
Decorative Light	Off
TV P. Size ▶	Expanded
Auto P. Size	On
Multi Picture	
Photo	
Reset	
⊖ Select ⊕ Set RETURN Return	

6 Follow the steps on page 20 to enter the **Function** menu and select the **Auto P.Size** option as shown on the right.

Press the ◀ ▶ cursor buttons to set the **Auto P.Size** option to **On** or **Off**.

Note: Please refer to page 56 for information on this function.


Function ▼	
Scan Mode	Progressive
Decorative Light	Off
TV P. Size	Expanded
Auto P. Size ▶	On
Multi Picture	
Photo	
Reset	
⊖ Select ⊕ Set RETURN Return	





7 Follow the steps on page 20 to enter the **Function** menu and select the **Multi Picture** option, then press the ▶ cursor button to enter **Multi Picture** menu as shown on the right.

Note: Please refer to page 33-37 for information on this function.

Multi Picture ▼	
Multi Picture	P in P
CH Surf	3
Freeze	Still
HP Select	A / B
Reset	
⊖ Select ENTER Return	

ON-SCREEN DISPLAY MENU 【FUNCTION MENU】

8 Follow the steps on page 20 to enter the **Function** menu and select the **Photo** option, then press the  cursor button to enter **Photo** menu as shown on the right.

Press the   cursor buttons to select the **Background** option, then press the   cursor buttons to set the **Background** option to **Off**, **1** or **2** to choose the background in photo display mode.



















Press the   cursor buttons to select the **Slide Mode** option and press the   cursor buttons to set the **Slide Mode** option to **1** or **2**. If the **Slide Mode** option is set **1**, press the **SLIDE SHOW** button to scroll all the photos starting from the first one in photo display mode. If the **Slide Mode** option is set **2**, press the **SLIDE SHOW** button to scroll from the current photo in photo display mode.

Photo ▼	
Background	Off
Slide Mode	1
Slide Interval	5sec
Slide Effect	Off
Slide Music	Off
Reset	
 Select  Return	

Press the   cursor buttons to select the **Slide Interval** option and press the   cursor buttons to set the **Slide Interval** option to **5sec**, **10sec** or **30sec**. (In photo display mode, press the **SLIDE SHOW** button to display slide show of the photos at fixed interval. For example, when **Slide Interval** is set **5sec**, the interval between each photo displayed during the slide show will be 5 seconds.)

Note: According to the nature of the photo, the actual intervals may be longer than the fixed interval.

Press the   cursor buttons to select the **Slide Effect** option and press the   cursor buttons to select **Off**, **1** or **2**. (The **Slide Effect** option is to set the transitional effect between each photo displayed during the slide show.)

Press the   cursor buttons to select the **Slide Music** option and press the   cursor buttons to select **Off**, **1** or **2**. (The **Slide Music** option is to set the playing music during the slide show.)

Note: Please refer to page 38-41 for more information on this function.

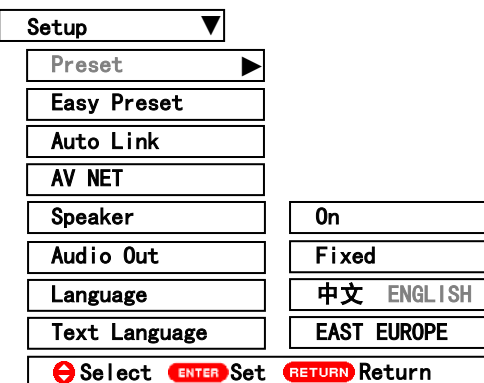
ON-SCREEN DISPLAY MENU 【SETUP MENU】

【Preset: Tuning】 You can perform search, skip, color system, sound system, program name, etc. on the **Tuning** menu. When the **Easy Preset** tuning is not desirable, you can adopt the following method to select programs.

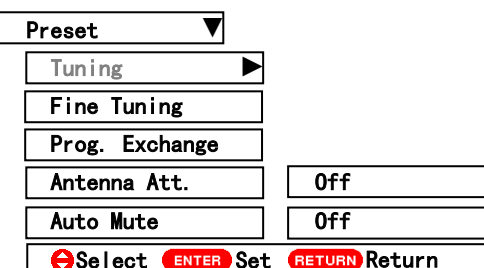
- 1 Press the **MENU** button to display menu.
Press the **▲** **▼** cursor buttons to select the **Setup** option as shown on the right.



- 2 Press the **ENTER** button to enter the **Setup** menu.
Press the **▼** cursor button to select the **Preset** option as shown on the right.



- 3 Press the **ENTER** button to enter the **Preset** menu.
Press the **▼** cursor buttons to select the **Tuning** option as shown on the right.



ON-SCREEN DISPLAY MENU 【SETUP MENU】

4 Press the **ENTER** button to enter the **Tuning** menu as shown on the right.

Press the **▲ ▼** cursor buttons to select **Tuning Mode**. Select the channel receiving mode in your region using the **◀ ▶** cursor buttons. For example, in Singapore, please select **CCIR** on the menu.

Note:

If without **CCIR** and **China**, you can select **Freq.** to tune.

Tuning ▼	
Tuning Mode ▶	CCIR
Program Number	0 0 1
Search	4 9 5 MHz
Skip	Off
Sound System	Auto
Color System	Auto
Program Name	- - - - -
TV NR	Off
All Program	
⏮ Select ⏭ Set RETURN Return	

5 Press the **▲ ▼** cursor buttons to select the **Program Number** option as shown on the right.

Choose a particular program number by pressing the **◀ ▶** cursor buttons or directly enter the program number buttons, for example, 001, 002, ..., 199, etc. Then press the **▼** cursor button to select the **Search** option. Press the **▶** or **◀** cursor button, the TV will begin searching automatically forward (high frequency) or backward (low frequency) until adjacent broadcast is found. You can continue to press the **◀** or **▶** cursor button to search the channel until the desired channel is available.

In this way, you can manually select the desired program easily.

Also, you can receive programs from RF output terminal of some equipment.

In addition, you can receive AV program using a particular **Program Number**. Select the **Search** option and press the **TV/VIDEO** button on the remote control unit to select AV1, AV2, etc. If you do not want to preset AV program, please press the **ENTER** button on the remote control unit to quit the AV program setting.

Tuning ▼	
Tuning Mode	CCIR
Program Number ▶	0 0 1
Search	4 9 5 MHz
Skip	Off
Sound System	Auto
Color System	Auto
Program Name	- - - - -
TV NR	Off
All Program	
⏮ Select ⏭ Set RETURN Return	





6 Select **Skip** using the **▲ ▼** cursor buttons as shown on the right. The **Skip** option in the menu allows you to skip those programs you do not like, for example, some repeated programs or programs with weak signal, etc. When **Skip** option is set to **On** using the **◀ ▶** cursor buttons, it will skip these programs automatically if you are to select the channels by the **Program up/down** buttons.

Skipped program numbers can still be selected by entering the respective number buttons.

You can access the menu to reset the **Skip** option.





Tuning ▼	
Tuning Mode	CCIR
Program Number	0 0 1
Search	4 9 5 MHz
Skip ▶	Off
Sound System	Auto
Color System	Auto
Program Name	- - - - -
TV NR	Off
All Program	
⏮ Select ⏭ Set RETURN Return	

ON-SCREEN DISPLAY MENU 【SETUP MENU】

7 The **Sound System** option in the **Tuning** menu allows you to select between various sound systems i.e. **Auto**, **4.5**, **5.5**, **6.0** or **6.5** (Note: Here the unit **MHz** is omitted.). Press the   cursor buttons to select the **Sound System** option, then press the   cursor buttons to select the desired sound systems as shown on the right. **Auto** is recommended, as this will automatically determine what system is being broadcast.






Note: This option is valid only for RF signal from antenna.

Tuning ▼	
Tuning Mode	CCIR
Program Number	0 0 1
Search	4 9 5 MHz
Skip	Off
Sound System ▶	Auto
Color System	Auto
Program Name	- - - - -
TV NR	Off
All Program	
⏮ Select ⏭ Set RETURN Return	

8 The **Color System** option in the **Tuning** menu allows you to select different color systems i.e. **Auto**, **PAL**, **SECAM**, **NTSC4.43** or **NTSC3.58**. Press the   cursor buttons to select the **Color System** option, then press the   cursor buttons to select the desired color systems as shown on the right. **Auto** is recommended, as this will automatically determine what system is being broadcast. However, some weak broadcast signals might cause incorrect judgment by the TV and it may become necessary to allocate a particular system to that program number.

Tuning ▼	
Tuning Mode	CCIR
Program Number	0 0 1
Search	4 9 5 MHz
Skip	Off
Sound System	Auto
Color System ▶	Auto
Program Name	- - - - -
TV NR	Off
All Program	
⏮ Select ⏭ Set RETURN Return	

Note: Please set **Color System** to **Auto** when receiving signal without color burst.

9 **Program Name** in the **Tuning** menu allows you to assign a name for each channel. The detail steps are shown below:
Press the   cursor buttons to select the **Program Name** option, then press the  cursor button to select the letter to be changed from the left to right. When the letter is selected, press the   cursor buttons to select the desired letter.
When you select a channel that has been named, the channel No., name and other information will appear on the top right corner of the screen. Also, you can press the **RECALL** button to display the same information.





Tuning ▼	
Tuning Mode	CCIR
Program Number	0 0 1
Search	4 9 5 MHz
Skip	Off
Sound System	Auto
Color System	Auto
Program Name ▶	- - - - -
TV NR	Off
All Program	
⏮ Select ⏭ Set RETURN Return	

Notes:

- (1) The letters above include 39 letters such as *, —, SPACE, 0-9, A-Z, etc.
- (2) When [- - - - -] appears in the **Program Name**, this implies that the channel is not named.
- (3) Try to avoid using all spaces to name the program.




ON-SCREEN DISPLAY MENU 【SETUP MENU】

10 If the picture is noisy due to weak RF signals from some channels, you can reduce noise by using **TV NR** function.





Press the   cursor buttons to select the **TV NR** option and then press the   cursor buttons to select **Off**, **Low** and **High** to turn off noise reduction function, activate low noise reduction and high noise reduction respectively.



Different channels can be set independently.

Note: This option is valid only for RF signal from antenna.

Tuning ▼	
Tuning Mode	CCIR
Program Number	0 0 1
Search	4 9 5 MHz
Skip	Off
Sound System	Auto
Color System	Auto
Program Name	- - - - -
TV NR	Off
All Program	
 Select  Set  Return	




11 **All Program** in **Tuning** menu can automatically search all available frequencies and store all stations available to the program numbers starting from the current program No.

Press the   cursor buttons to select the **Program Number** option on the menu, press the   cursor buttons or number buttons to select program No.

Press the   cursor buttons to select the **All Program** option as shown on the right. Then press the **ENTER** button to begin the auto tune procedure. The word **Searching** will appear at the bottom of the menu, and the TV will search for all frequencies and store all tuned frequencies to the program numbers starting from the **Program Number** selected.





In the process of searching, press the **ENTER** button to quit.





After complete the searching, the TV will quit the menu automatically.

Tuning ▼	
Tuning Mode	CCIR
Program Number	0 0 1
Search	4 9 5 MHz
Skip	Off
Sound System	Auto
Color System	Auto
Program Name	- - - - -
TV NR	Off
All Program	
 Select  Set  Return	

AV PRESETTING




Press the **TV/VIDEO** button to switch the picture to the AV mode.

Enter the **Preset** menu to display the menu as shown on the right. Press the   cursor buttons to select the **AV Mode** option and the   cursor buttons or the **TV/VIDEO** button to select **AV1**, **AV2**, **AV3**, **AV4** or **AV5**.

Press the   cursor buttons to select the **Color System** option, then press   cursor buttons to select **Auto**, **PAL**, **SECAM**, **NTSC4.43** or **NTSC3.58**.

If the picture in AV mode is abnormal resulted from incorrect color system, you can use the **Color System** option to select the correct system.

When receiving component signal (Y, P_B/C_B, P_R/C_R) from **INPUT1** (or HDMI input) or **INPUT2** terminal, though the **Color System** option can be set, it has no effect on the picture. This is normal.

Preset ▼	
AV Mode	AV1
Color System	Auto
 Select  Set  Return	

ON-SCREEN DISPLAY MENU 【SETUP MENU】

【Preset: Fine Tuning】 It is unnecessary to fine tune in normal receiving condition. However, fine tuning is required in some areas where the broadcasting signals are weak. Please follow the steps as shown below.

1 Follow the steps on page 23 to enter the **Preset** menu as shown on the right.

Preset ▼

Tuning

Fine Tuning

Prog. Exchange

Antenna Att. Off

Auto Mute Off

↩ Select ENTER Return

2 Press the ▲ ▼ cursor buttons to select the **Fine Tuning** option as shown on the right.

Preset ▼

Tuning

Fine Tuning ►

Prog. Exchange

Antenna Att. Off

Auto Mute Off

↩ Select ENTER Set RETURN Return

3 The Fine tuning adjustment bar is shown on the screen as shown on the right by pressing the **ENTER** button. Then press the ◀ ▶ cursor buttons to fine tune for desired picture condition.

Fine Tuning ►

◀ Set RETURN Return

ON-SCREEN DISPLAY MENU 【SETUP MENU】

【Preset: Prog.Exchange】 The menu allows you to set the program to your desired channel position. Please follow the steps below.

- 1 Follow the steps on page 23 to enter the **Preset** menu, then select the **Prog. Exchange** option as shown on the right.

Preset ▼

Tuning

Fine Tuning

Prog. Exchange ▶

Antenna Att. Off

Auto Mute Off

↻ Select ENTER Set RETURN Return

- 2 Press the **ENTER** button to display the **Prog. Exchange** menu as shown on the right.

Select the **Prog.No.** option to be exchanged (left side of arrow shows green), press the ▲ ▼ cursor buttons to select program No. **001** as shown on the right.

Prog. Exchange ▼

(Before)		(After)
Prog. No.	Ch./Freq.	Prog. No. Ch./Freq.
0 0 1	: 2 0 8 MHz	↔ 1 9 9 : 1 9 2 MHz

↻ Select ENTER Confirm RETURN Return

- 3 Press the **ENTER** button to select the other **Prog.No.** (right side of arrow shows green) and press the ▲ ▼ cursor buttons to select the program No. desired to be exchanged (No.199) as shown on the right. Then press the **ENTER** button to carry out the exchange.

Prog. Exchange ▼

(Before)		(After)
Prog. No.	Ch./Freq.	Prog. No. Ch./Freq.
0 0 1	: 2 0 8 MHz	↔ 1 9 9 : 1 9 2 MHz

↻ Select ENTER Exchange RETURN Return

ON-SCREEN DISPLAY MENU 【SETUP MENU】

【Preset: Antenna Att.】 In some cases, the quality of picture may be impaired due to strong RF signal from the antenna terminal. You can set the antenna attenuation to prevent such problem. Please follow the steps below.

Follow the steps on page 23 to enter the **Preset** menu, then select the **Antenna Att.** option as shown on the right.

Press the ◀ ▶ cursor buttons to set the **Antenna Att.** option **On** or **Off** to turn on or off the **Antenna Att.** function.

The screenshot shows the TV's OSD menu. At the top is a 'Preset' dropdown menu. Below it are several menu items: 'Tuning', 'Fine Tuning', 'Prog. Exchange', 'Antenna Att.', 'Auto Mute', and a bottom bar with 'Select', 'Set', and 'RETURN' buttons. The 'Antenna Att.' option is highlighted with a right-pointing arrow, and its value is set to 'Off'.

【Preset: Auto Mute】 If **Auto Mute** is **On**, the noise from TV will be controlled when there is no signal transmission from the antenna terminal.

Follow the steps on page 23 to enter the **Preset** menu, then select the **Auto Mute** option as shown on the right.

Press the ◀ ▶ cursor buttons to set the **Auto Mute** option **On** or **Off** to turn on or off the **Auto Mute** function.

The screenshot shows the TV's OSD menu. At the top is a 'Preset' dropdown menu. Below it are several menu items: 'Tuning', 'Fine Tuning', 'Prog. Exchange', 'Antenna Att.', 'Auto Mute', and a bottom bar with 'Select', 'Set', and 'RETURN' buttons. The 'Auto Mute' option is highlighted with a right-pointing arrow, and its value is set to 'Off'.





【Easy Preset】 Refer to page 15.

ON-SCREEN DISPLAY MENU 【SETUP MENU】

【Auto Link】

Use this function to automatically switch on the TV and switch it to **AV1** or **AV5** mode when it detects a video signal from **INPUT1** (or Y signal or HDMI signal) or **INPUT5** (or S-VIDEO signal) terminal of the TV. It provides you ease when using with your external equipment.

Connect external equipment to **INPUT1** or **INPUT5** terminal of the TV. Refer to CONNECTION WITH OTHER EQUIPMENT on page 60, 62 and 63 for more information.

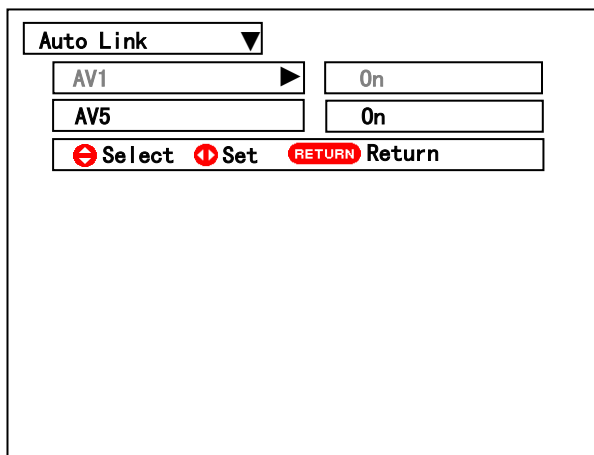
Follow the steps on page 23 to enter the **Setup** menu and select the **Auto Link** option. Enter the **Auto Link** menu as shown below. Press the   cursor buttons to select **AV1** or **AV5**. Then press the   cursor buttons to set **AV1** or **AV5** to **On**, **Auto Link** function for the respective inputs will be activated.

(1) If you switch on the power of the external equipment connected to **INPUT1** or **INPUT5** terminal of the TV when its power is on, and there is an output signal from these external equipment, **Auto Link** function will automatically switch the TV from the TV channel or any other AV modes to **AV1** or **AV5** mode accordingly.

(2) If you switch on the power of the external equipment connected to **INPUT1** or **INPUT5** terminal of the TV when it is at standby mode, and there is an output signal from these external equipment. **Auto Link** function will automatically switch on the TV and switch to **AV1** or **AV5** automatically. The set will turn to standby mode automatically from the time when there is no operation on the set for a long time.

Note:

When the HDMI input has been connected and the TV is in standby. If you switch on the power of the HDMI equipment, the TV keep in standby.





Remarks:

- (1) If the performance of your external equipment connected to **AV1** or **AV5** on the TV is not reliable, it is recommended to turn off the **Auto Link** function to avoid the misoperation.
- (2) If you use your external equipment or the video cassette recorder to perform recording after they are set to **On Timer**, do not activate **Auto Link** function to avoid the misoperation.

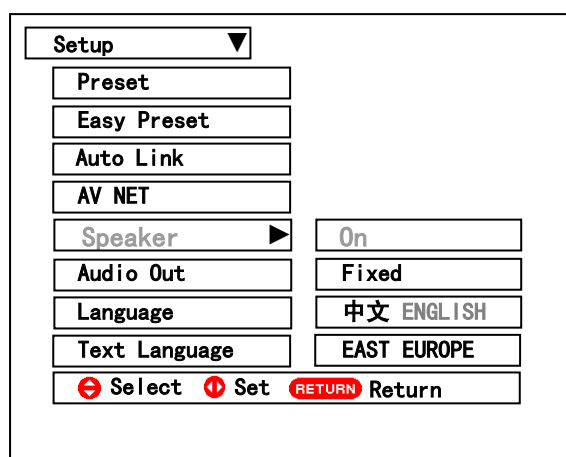
【AV NET】 Refer to page 42-52.

【Speaker】

Follow the steps on page 23 to enter the **Setup** menu, then select the **Speaker** option as shown on the right.

Press the   cursor buttons to set the **Speaker** option **On** or **Off** to turn on or off the speakers of the TV.

Note: When the external stereo system is connected to the FIXED/VARIABLE AUDIO output terminals of the TV, you can set the **Speaker** option to **Off** to turn off the speakers of the TV.



ON-SCREEN DISPLAY MENU 【SETUP MENU】

【Audio Out】

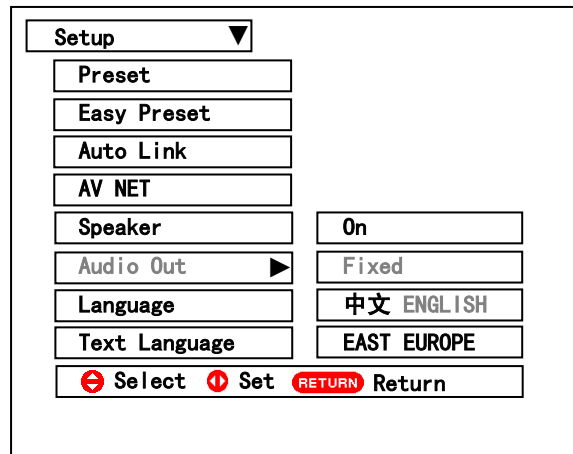
Follow the steps on page 23 to enter the **Setup** menu, then select the **Audio Out** option as shown on the right.

Press the ◀ ▶ cursor buttons to set the **Audio Out** option **Fixed** or **Variable**.

The setting of the **Audio Out** option can change the output mode of the FIXED/VARIABLE AUDIO output terminals. It provides you with two modes (**Fixed** or **Variable**) for selection.

When **Audio Out** is set **Fixed**, the audio volume via the FIXED/VARIABLE AUDIO output terminals will be fixed.

When **Audio Out** is set **Variable**, the audio volume via the FIXED/VARIABLE AUDIO output terminals will be variable. You can control the volume by pressing **Volume up/down** buttons on the remote control unit of the TV set.



Note:

Please lower the volume of equipment to prevent damage to its speakers or hearing distorted sound when connecting the FIXED/VARIABLE AUDIO output terminals on the TV to the stereo system equipment.

【Language】 Refer to page 14.

【Text Language】

Follow the steps on page 23 to enter the **Setup** menu, then select the **Text Language** option as shown on the right.

Press the ◀ ▶ cursor buttons to set the language of text in your region. You can choose the **Text Language** options such as **EAST EUROPE**, **ARABIC**, **IRANIAN** and **WEST EUROPE**.



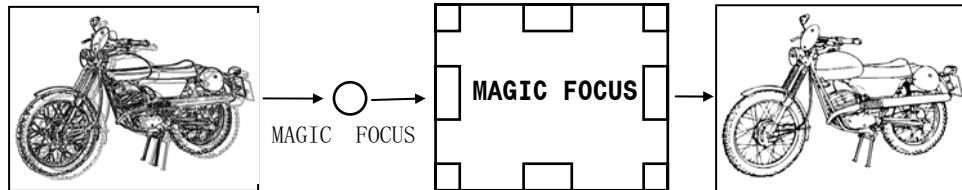
MAGIC FOCUS

Over a period of time, the picture tubes can drift out of alignment due to abnormal bumps and vibrations or shifting of the TV. You may then notice that there are color rings or halos around the objects in the picture. You may have to converge (align) the colors (refer to note*1). If the picture on the screen is very clear, you may skip the below procedures.

The TV provides two modes of convergence adjustment (**AUTO CONVERGENCE** and **MANUAL CONVERGENCE**). Please ensure that the TV is powered on for at least 20 minutes before you proceed with the convergence adjustment.

AUTO CONVERGENCE

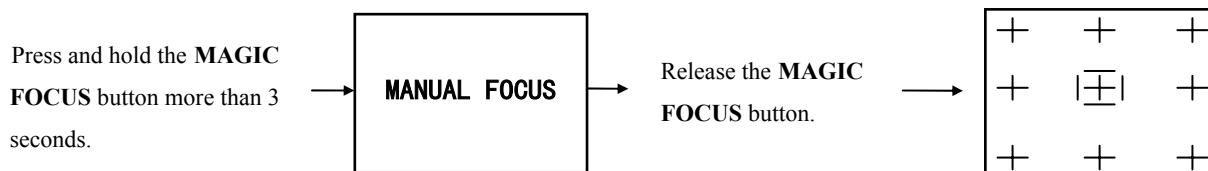
Press the **MAGIC FOCUS** button on the side panel for one second or so to enter the **AUTO CONVERGENCE** mode. At anytime during this convergence correction process, you may press the **MAGIC FOCUS** button to exit, and the picture condition will remain unchanged.



This process will take approximately 20 seconds. (Do not move the TV during this auto convergence process.)

MANUAL CONVERGENCE

Press and hold the **MAGIC FOCUS** button for more than 3 seconds to enter the **MANUAL CONVERGENCE** mode.



(1) Press the cursor buttons to move the selection box to select the adjustment point. Press the **ENTER** button to change the color of the selection box to red. Press the cursor buttons to adjust red convergence.

Note: Press the number buttons (2, 5, 4, 6) can also move the selection box to select the adjustment point, and then to adjust red convergence directly.

(2) Press the **ENTER** button to change the selection box to blue. Press the cursor buttons to adjust blue convergence.

(3) Press the **ENTER** button to change the selection box to white. Press the cursor buttons to move the selection box to select another adjustment point, then perform (1)~(2) to adjust.

Notes: 1. During the adjustment, press the **ENTER** button frequently to return to the moving mode (is shown in white, which means the selection box is in the moving mode.) and affirm convergence of the selection box so as to get the best convergence.

2. If you cannot insure perfect alignment, please try to get balance in alignment between and .

(4) When adjustment is done, press the **MENU** button and the following screen will display as below. Press the number keys to perform the following procedure.

[0]: To cancel the adjusted data and exit from adjustment mode.

[1]: **To save the adjusted data and exit from adjustment mode.**

[2]: To return to manual convergence mode.

[3]: To recall the adjusted data from previous auto convergence and return to manual convergence mode.

Notes:

1) During the adjustment, you are suggested to adjust again and again, and confirm the alignment of the selection box in the moving mode.

2) If there is no operation for 3 minutes from the remote control unit, the TV will exit from **MANUAL CONVERGENCE** mode.

PLEASE	
ENTER NUMBER	
CANCEL	: [0]
DONE	: [1]
BACK	: [2]
RESET	: [3]

Note*1: The TV has three color projection tubes: one for red, one for green and one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the color can be mixed. The process of aligning these picture beams is called **convergence**.



MULTI PICTURE

The **Multi Picture** function of this projection TV provides two modes, **Split** and **P in P**. To use the **Multi Picture** function allows you to enjoy the programs easily and comfortably.


In normal picture mode, press the **MULTI PIC.** button to enter the **Split** or **P in P** mode.

【Split】

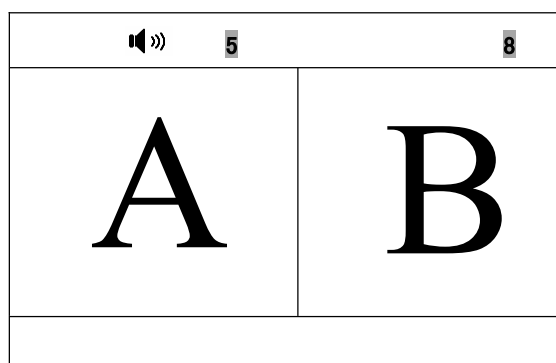
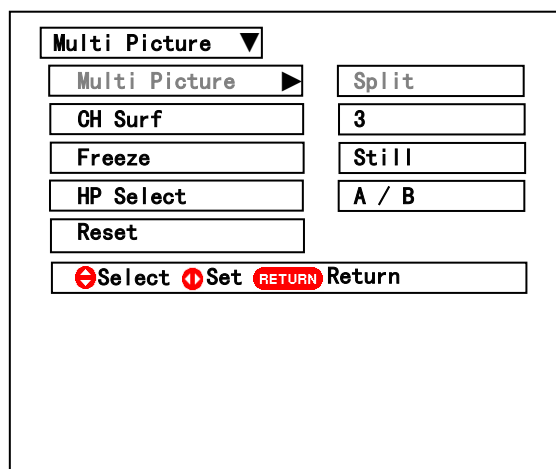
Follow the steps on page 20 to enter the **Function** menu and select the **Multi Picture** option, then enter the **Multi Picture** menu and select the **Multi Picture** option as shown on the right.

Press the   cursor buttons to set **Multi Picture** option to **Split** mode, then exit from the menu.


● In normal picture mode, press the **MULTI PIC.** button to enter the **Split** mode as shown below. Picture A and B will show the programs of two channels respectively.

● Once you have entered the **Split** mode, press the **A/B** button to select any one of the two pictures. A red  symbol will appear on top of the selected picture, indicating:

- (1) The TV speakers will output the sound from the selected picture.
- (2) The monitor out terminals will output audio and video signals from the selected picture.
- (3) The operations such as program selection, etc. are valid for the selected picture. However, the program No. selected in one picture cannot be the same as that in the other one. Otherwise, the characters **!Not Available** will appear.



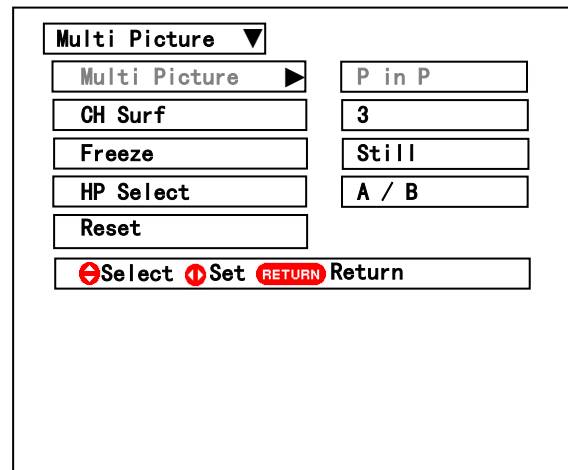
Notes:

- (1) When the **RECALL** button is pressed, the picture A and B will display their respective program No. instantly, and the red  symbol will appear on the top of the selected picture momentarily.
 - (2) If the **HP Select** option in the **Multi Picture** menu is set to **B**, the headphone terminal of the side panel will always output the sound from picture **B**. If the **HP Select** option in the **Multi Picture** menu is set to **A/B**, the headphone terminal of the side panel will output the sound from the selected picture.
- In the **Split** mode, you can press the **SWAP** button to switch between the two pictures, ie, to exchange the program sources of picture A and B.
 - If the **Freeze** option in the **Multi Picture** menu is set to **Still**, while in the normal TV mode, pressing the **FREEZE** button will enter the **Split** mode automatically. Picture A will display the current active program and picture B will display a freeze frame of the TV program captured at the moment you press the **FREEZE** button. MONITOR OUT terminals will output audio and video signals from picture A. Please refer to page 37 for information if the **Freeze** option in the **Multi Picture** menu is set to **Strobe**.
 - In the **Split** mode, the **POSITION** button does not work.
 - In the **Split** mode, press the **MULTI PIC.** or the **RETURN** button to exit.
 - In the **Split** mode, you may enter the **Audio** menu to make adjustment by pressing the **MENU** button. However, if you enter other menus such as **Picture**, it will exit from the **Split** mode.

MULTI PICTURE

【P in P】

Follow the steps on page 20 to enter the **Function** menu and select the **Multi Picture** option, then enter the **Multi Picture** menu and select the **Multi Picture** option as shown on the right. Press the ◀ ▶ cursor buttons to set the **Multi Picture** option to **P in P** mode, then exit from the menu.



- In normal TV mode, press the **MULTI PIC.** button to enter the **P in P** mode as shown below. Picture A and B will show the programs of two channels respectively.
- **P in P** mode will have different display formats according to the signal format received.

(1) When both the main picture and sub picture are receiving from RF, video or component signals (525i or 625i) or HDMI signal (525i or 625i), the **P in P** mode will display as shown in figure 1.

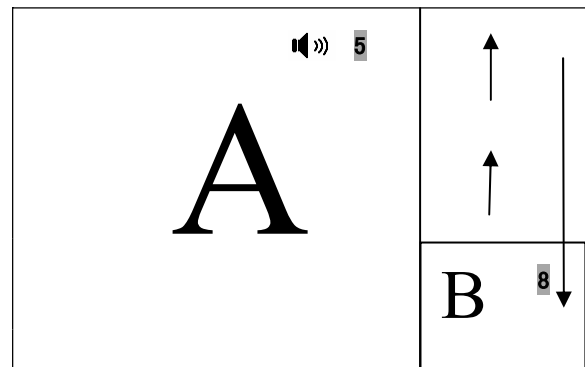


Figure 1.

Note: In this mode, press the **SWAP** button to exchange the program sources of picture A and B.

(2) When the main picture receives 1125i HD signal and the sub picture receives RF, video or component signals (525i or 625i) or HDMI signal (525i or 625i), the **P in P** mode will display as shown in figure 2.

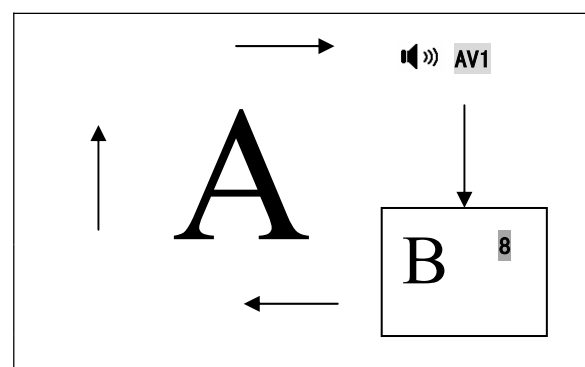



Figure 2.


Note: In this mode, press the **SWAP** button, it will change from figure 2 condition to figure 1. However, picture B will not be displayed normally and the ! symbol will appear. This is normal.

MULTI PICTURE

● Once you enter the **P in P** mode, press the **A/B** button to select any one of the two pictures. A red  symbol will appear on top of the selected picture, indicating:

- (1) The TV speakers will output the sound from the selected picture.
- (2) The monitor out terminals will output audio and video signals from the selected picture.
- (3) The operations such as program selection, etc. are valid for the selected picture. However, the program No. selected in one picture cannot be the same as that in the other one. Otherwise the characters **!Not Available** will appear.

Notes:

- (1) When the **RECALL** button is pressed, picture A and B will display their respective program No. instantly, and a red  symbol will appear on top of the selected picture momentarily.
- (2) If the **HP Select** option in the **Multi Picture** menu is set to **B**, the headphone terminal of the side panel will always output the sound from picture **B**. If the **HP Select** option in the **Multi Picture** menu is set to **A/B**, the headphone terminal of the side panel will output the sound from the selected picture.

● Press the **POSITION** button to move picture B on the screen in sequence as shown on previous page. Do not fix picture B on a particular position of the screen for a long time, this will damage the PRT.

● In the **P in P** mode, you can press the **MULTI PIC.** or the **RETURN** button to quit.

● In the **P in P** mode, you can press the **MENU** button to enter the menu, then select the **Audio** option to perform audio adjustment. However, if you enter other menus such as **Picture**, it will exit from the **P in P** mode.

Note: Not all input signal formats are valid for **P in P**. Sometimes, the signal may be able to be displayed in TV mode before entering **P in P**, it may not be able to be displayed once in the **P in P** mode. In such case, the characters **!Invalid Signal** will appear in picture A, or the **!** symbol will appear in picture B. This is normal.

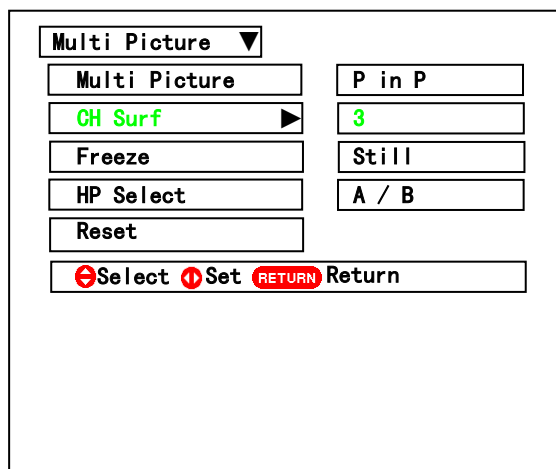
CH SURF FUNCTION

The **CH Surf** function of this TV provides two modes, mode **3** and mode **12**. To use this function allows you to enjoy the programs easily and comfortably.

In normal picture mode, press the **CH SURF** button to enter mode **3** or mode **12**.

【Mode 3】

Follow the steps on page 20 to enter the **Function** menu and select the **Multi Picture** option, then enter the **Multi Picture** menu and select the **CH Surf** option as shown on the right. Press the **◀ ▶** cursor buttons to set the **CH Surf** option to mode **3**, then exit from the menu.

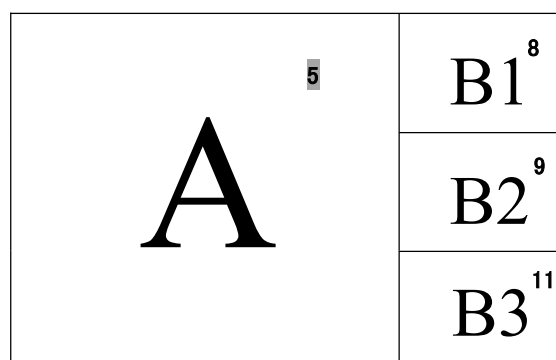


- In normal TV mode, press the **CH SURF** button to enter mode **3** (4-Picture display mode) as shown below.

Picture A will display the current active program. The speakers and the headphone jack will output the sound from picture A. The monitor out terminals will output audio and video signals from picture A too.

Picture B1, B2 and B3 will rotate to refresh individual program after a few seconds starting from the program No.0, except those programs that are skipped.

- When entering mode **3**, you can select the program for picture A by pressing the program up/down buttons **▲ ▼** or number buttons. As for the pictures in group B, you can press the **▲P+ ▼P-** buttons to select one of the pictures among the B1, B2, B3 picture. The color of the program No. in the selected picture will turn from white to green. If you press the **ENTER** button, the picture selected in group B will be switched to the picture A.





- In this mode, press the **CH SURF** or the **RETURN** button to quit.
- In this mode, you can enter the **Audio** menu to perform the adjustment. However, if you enter other menus such as **Picture**, it will exit from the 4-Picture display mode.
- In this mode, the **A/B**, **SWAP** and **POSITION** buttons are invalid.

Note: Not all input signal formats are valid for mode **3**. Sometimes the signal may be able to be displayed in TV mode before entering mode **3**, it may not be able to be displayed once in mode **3**. In such case, the characters **!Invalid Signal** will appear in picture A, or the **!** symbol will appear in picture B. This is normal.

CH SURF FUNCTION





【Mode 12】

Follow the steps on page 20 to enter the **Function** menu and select the **Multi Picture** option, then enter the **Multi Picture** menu and select the **CH Surf** option as shown on the right. Press the   cursor buttons to set the **CH Surf** option to mode **12**, then exit from the menu.

Multi Picture ▼	
Multi Picture	P in P
CH Surf ▶	12
Freeze	Still
HP Select	A / B
Reset	
⏪ Select ⏩ Set RETURN Return	

- In normal TV mode, press the **CH SURF** button to enter mode **12**(12-picture) as shown below.

The 12 pictures will rotate to refresh individual program after a few seconds starting from the program No.0 except for those skipped program. If the preset channels are less than 12, it will display the actual number of searched program. If the preset channels are more than 12, use the **Page up/down** buttons to select the next group of program.

- In this mode, you can press the     cursor buttons to select one of the pictures, and the program No. of the selected picture will turn from white to green. If you press the **ENTER** button to quit, the selected picture will fill the entire TV screen.

1	2	3	4
5	6	7	8
9	10	11	12



- In this mode, directly entering the program No. by using the number buttons will quit this mode, and the selected picture will fill the entire TV screen.

- In this mode, there will be no signal output from the speakers, the headphone jack and the monitor out terminals.

- In this mode, press the **CH SURF** or the **RETURN** button to quit. If you enter the menu by pressing the **MENU** button, it will exit from this mode.

- In this mode, the **A/B**, **SWAP** and **POSITION** buttons are invalid.

The **Strobe** function is as shown below.

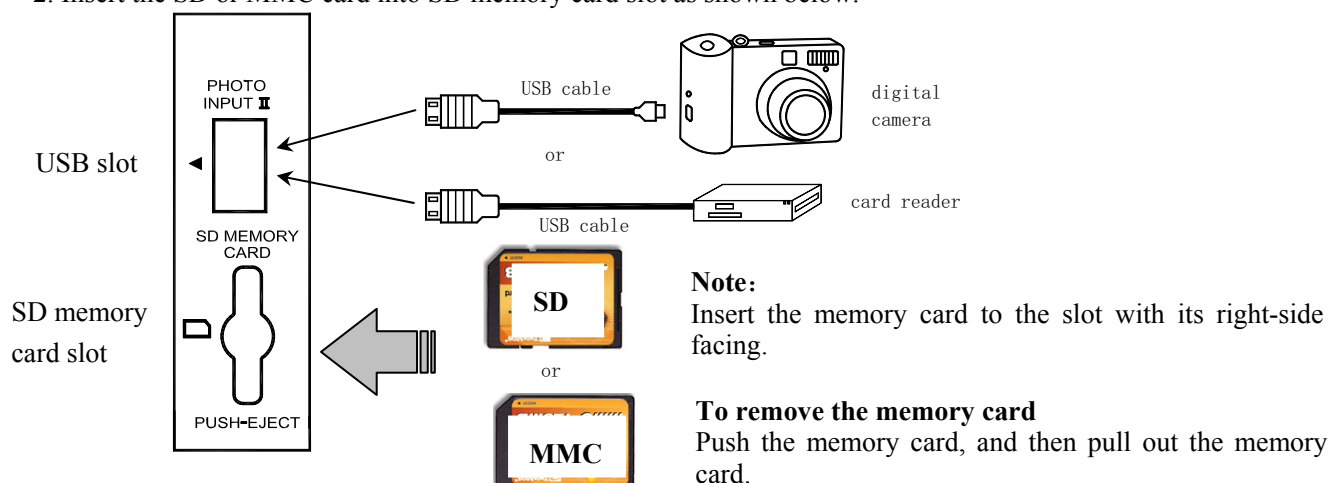
Follow the steps on page 20 to enter the **Function** menu and select the **Multi Picture** option, then enter the **Multi Picture** menu and select the **Freeze** option. Press the   cursor buttons to set the **Freeze** option to **Strobe**, then exit from the menu.

- In normal TV mode, press the **FREEZE** button to enter the mode **12** automatically. The 12th picture will display the current active program. The other 11 pictures will display the continuous freeze frames of the TV program captured at the moment you press **FREEZE**. This function is not valid for all input signal formats. When **! Not Available** appears, it is invalid.
- In this mode, you can quit by pressing the **RETURN** or the **FREEZE** button.
- In this mode, you can enter the **Audio** menu to perform the adjustment. However, if you enter other menus such as **Picture**, it will exit from this mode.
- The monitor out terminals will output the video and audio signals from the current active program.
- In this mode, the **A/B**, **SWAP** and **POSITION** buttons are invalid.

BRIDGE MEDIA FUNCTION

The TV provides two kinds of methods to view still or motion pictures from your digital camera.

1. Connect your digital camera or card reader to the PHOTO INPUT II (USB slot) on the side panel of the TV using a USB cable.
2. Insert the SD or MMC card into SD memory card slot as shown below.



Usage

1. Please turn off the power or set the TV in standby before using this function.
2. Set the digital camera to the same state as when connecting to PC, which is described in the digital camera instruction manual. Then turn off the digital camera.






Note: Please insert memory card into card reader before connecting the card reader.

3. Connect your digital camera to the USB slot using a USB cable. Then turn on the power of the TV and the camera. Some camera need to be turned on before connecting to the USB cable, please refer to the camera instruction manual. If you do not follow the instructions stated in the camera instruction manual, it may be abnormal.

Note: Refer to the above illustration for using SD or MMC memory card. Turn on the TV after inserting the memory card into the SD memory card slot.

4. If display is normal, the bridge media status indicator will light up after a few seconds.
5. To use the photo display function:

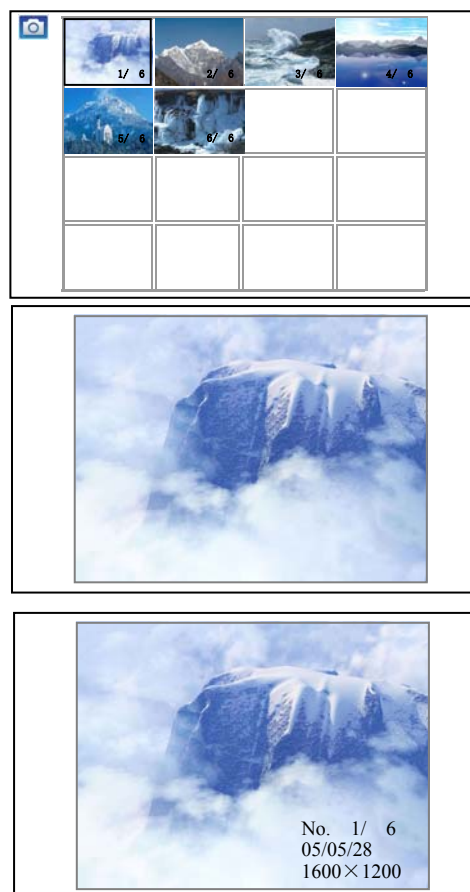
1) PHOTO BROWSE

Press the **TV/PHOTO** button to switch the TV from TV mode to photo display mode. A  symbol will appear on left top of the screen for a while and the first sixteen photos will be shown on the screen. (If the photos stored in the memory card are less than 16, the TV will display the photos available only.) Press the **Page up/down** buttons to show the next page of photo display. Select one of the sixteen photos using the     cursor buttons (or number buttons), the frame of the selected photo will be indicated in green. Press the **ENTER** button to display the selected photo as shown on the right. The related information of this photo will appear on the lower right corner of the photo when the **RECALL** button is pressed. For example, the information of this photo indicates as follows:



No. 1/6: There are six photos in total, this is the first one.

05/05/28: May 28, 2005

1600×1200: Pixels :1600×1200




BRIDGE MEDIA FUNCTION

When browsing a photo in full screen, you may change the photo using the   cursor buttons, the **Program up/down** buttons or number buttons. If you press the **ENTER** button, it will return to 16-photo mode.



While displaying the photo, press the **TV/PHOTO** button to switch photo display mode to TV mode.

While displaying the photo, press the **RETURN** button to return to 16-photo mode.

In the 16-photo mode, press the **TV/PHOTO** once more to switch 16-photo mode to 16-motion-picture list mode, and a  symbol will appear on left top of the screen for a while. Refer to “6.To use motion picture display function” for more information.

In the 16-photo mode, press the **RETURN** button to switch 16-photo display mode to TV mode.

2) ROTATE FUNCTION

- (1) While displaying one photo in full screen, press the **ROTATE** button to rotate the photo to 0° , 90° , 180° or 270° . The symbol such as  0 is displayed on the lower left corner of the screen accordingly for a while.
- (2) In 16-photo mode, select the photo you wish to rotate and press the **ROTATE** button to display a  0 on the lower left corner. Press the **ROTATE** button continuously to rotate the selected photo (0° , 90° , 180° , 270°) .

3) SLIDE SHOW FUNCTION






- (1) Follow the steps on page 22 to set the **Slide Interval** among **5sec**, **10sec** and **30sec**.
- (2) In photo display mode, press the **SLIDE SHOW** button to scroll the photos starting from the first one or current photo (refer to page 22 on the **Slide Mode** explanation) at fixed slide intervals.
- (3) Press the **ENTER** button to stop slide show, and a **ENTER Start** will appear on the lower left side. If the **ENTER** button is pressed, the TV will return to slide show mode. If there is not operation within one minute, the TV will return to slide show mode automatically.
- (4) After finishing the slide show, the TV will return to 16-photo mode.
- (5) In the process of slide show, the **Rotate** function is not available.
- (6) In the process of slide show, press the **TV/PHOTO** button to switch slide show mode to TV mode.



4) OTHER FUNCTIONS

In photo mode, there are other functions such as **Background**, **Slide Mode** and **Slide Music**, please refer to page 22.

6.To use motion picture display function:

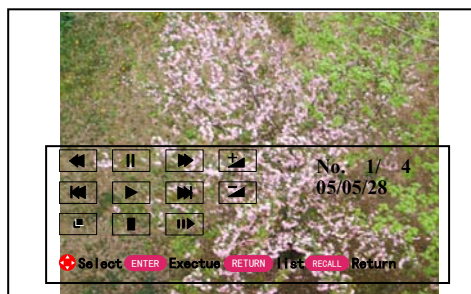
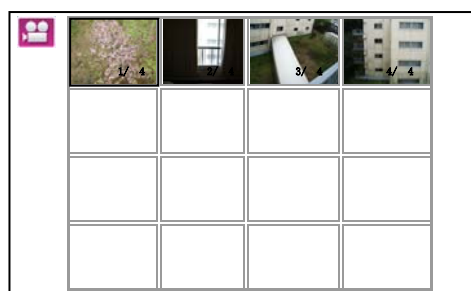
1) ENJOY MOTION PICTURE

In the 16-photo mode, press the **TV/PHOTO** button once more to switch 16-photo mode to 16-motion-picture list mode (thumbnail) mode. A  symbol will appear on the left top of the screen for a while and the first sixteen motion pictures' thumbnail will be shown on the screen. (If the motion pictures stored in the memory card are less than 16, the TV will display the motion pictures available only.) Press the **Page up/down** buttons to show the next page of thumbnail. Select one photo in thumbnail using the     cursor buttons (or number buttons), the frame of the selected thumbnail will be indicated in green. Press the **ENTER** button to play the selected motion picture as shown on the right. It will return to 16-motion-picture list mode after finishing playing.

Note: In 16-motion-picture list mode, if a  symbol appears on a thumbnail, it means that the audio format of this motion picture cannot be supported. If a  symbol appears on a thumbnail, it means that this motion picture cannot be played.

When enjoying motion picture, press the **RETURN** button to return to 16-motion-picture list mode. If you press the **RETURN** button once more, it will return to 16-photo mode.

When enjoying motion picture, press the **TV/PHOTO** button to switch motion picture mode to TV mode.



BRIDGE MEDIA FUNCTION

2) PLAY MOTION PICTURE

When enjoying motion picture, you can press **RECALL** button to display the information and control menu on the bottom side of the screen. The control menu indicates as shown below.

Symbol	Function	Symbol	Function
◀	Fast backward	■	Zoom
▶	Fast forward	▶	Play
⏮	*1)	⏸	Pause
⏭	Skip forward	⏶	Volume up
■	Stop	⏷	Volume down
⏪	Slow play		

No. 1/4: There are four motion pictures in total, this is the first one.

05/05/28: May 28, 2005

Press the **▲▼◀▶** cursor buttons to select the function symbol on screen display, and then press the **ENTER** button to control the motion picture. For example, if you want to pause the motion picture, press the **▲▼◀▶** cursor buttons to select the **⏸** symbol, and it will show in green, indicating it is selected. Then press the **ENTER** button, the color of this symbol changes green to yellow, the motion picture will be paused.

*1) When the **⏮** symbol is selected, press the **ENTER** button to play the motion picture from the beginning itself. When the **⏮** symbol is shown in yellow, press the **ENTER** button once more to play the last motion picture.

Remarks:

- (1) In bridge media mode, the characters **! No Connection** will appear on the screen if the connected equipment is unplugged or not connected properly.
In TV mode, the characters **! No Connection** will appear on the screen when you press the **TV/ PHOTO** button if the equipment is not connected.
- (2) In bridge media mode, the optional picture modes are **Favorite(Photo)** and **Dynamic(Photo)** only.
- (3) In photo display mode, the TV will exit from the photo mode automatically when you enter the **Timer, Setup** or **Function** menu. In motion picture mode, the TV will exit from the motion picture mode automatically when you enter the **Timer, Setup** or **Function** menu.
- (4) With the photo display mode or the motion picture playing being over, the TV will automatically reduce the contrast and color setting value of the picture displayed if there is not operation for more than three minutes. This may prevent damaging the PRT.
- (5) In bridge media mode, multi picture, channel surf, freeze and aspect mode functions are not available.
- (6) The TV can display maximum 500 photos or motion pictures.
- (7) When the bridge media status indicator is flickering, it indicates that TV is accessing the data in memory card. At this time, do not turn off the TV or cut off the connection, otherwise the data in memory card may be damaged.

Explanations:

- (1) The TV can display digital pictures from digital cameras which meet DCF Standard or the motion pictures whose format is Motion JPEG, PhotoJPEG, MPEG1 or MPEG4 (Supported audio formats of motion pictures are PCM, ADPCM and MPEG1-Layer2.). Files that were copied or edited on a computer may not be displayed on the TV screen.
- (2) Supported JPEG image sizes are up to 8176×8176. JPEG format should conform with DCF standard.
- (3) The USB slot on the TV can only connect to digital camera or card reader whose current consumption must be less than 500mA.
- (4) The USB slot on the TV cannot connect the camera or card reader with USB hub.
- (5) When all-in-one card reader is used, please insert one memory card at a time.
- (6) Not all digital camera or card reader or SD card or MMC card is compatible with the TV. Similarly, compatibility exists in the memory card and digital camera or card reader.
- (7) Do not use the USB slot and the SD memory card slot at one time.
- (8) The TV can only display photos and motion pictures (include audio) in the digital camera, the audio that was recorded by the digital camera or appended to a photo cannot be played on the TV.
- (9) Supported motion pictures of MPEG4 are up to 352×288, and motion pictures of Motion JPEG, PhotoJPEG and MPEG1 are up to 640×480. When the motion picture is played, it may drop frames. This is normal.

BRIDGE MEDIA FUNCTION

- (10) When the batteries in the digital camera were exhausted, the photo or motion picture may be displayed abnormally.
- (11) The memory card used in the digital camera must be formatted by the digital camera. If it is formatted by the computer, this function may be abnormal.
- (12) The rule of filename and directory structure in the memory card:
 - * Files should be placed on a sub directory** of a main directory with a “**DCIM**” file name format
 - **Files should be placed on a sub directory name with 8 characters (E.g. 123ABCDE), 1st to 3th: numbers (100~999); 4th to 8th: letters.
 - ***File names should be 8 characters (E.g. ABCD1234.jpg), 1st to 4th: letters; 5th to 8th: numbers (0001~9999).
- (13) The effect playing motion pictures through SD memory card slot may be better than through USB slot.
- (14) When the PictBridge compatible digital camera is connected to USB slot on the TV through PTP, you can only play photos. Refer to the digital camera instruction manual for PictBridge in detail.
- (15) Some suggestions for playing the motion pictures:
 - a) If your digital camera supports SD or MMC memory card, insert SD or MMC card to SD slot directly for viewing photos or motion pictures.
 - b) If your digital camera is PictBridge compatible and there are two options in connection, PTP and Mass Storage connection, when you set the digital camera to Mass Storage, you can play both photos and motion pictures.
 - c) If your digital camera is not PictBridge compatible, use card reader to connect with USB slot on the TV. Please note that we do not guarantee all memory cards and card readers are compatible with the TV.
- (16) The photos or motion pictures may not be displayed correctly if you extend the USB cable.
- (17) Do not use this function other than private purpose. It may infringe the copyright law.
- (18) Back up all of the data in the memory card in case of being damaged due to unexpected accident. We are not liable for any losses caused by misuse or malfunction.

Information display

Status	BRIDGE MEDIA status indicator	Display on screen
Accessing	blinking	
Normal	always on	
Not connected	always off	!No Connection
Format not available	always off	!No Connection
Abnormal	always off	!No Connection
No file	always on	!No File



is trademark of SD Card Association.

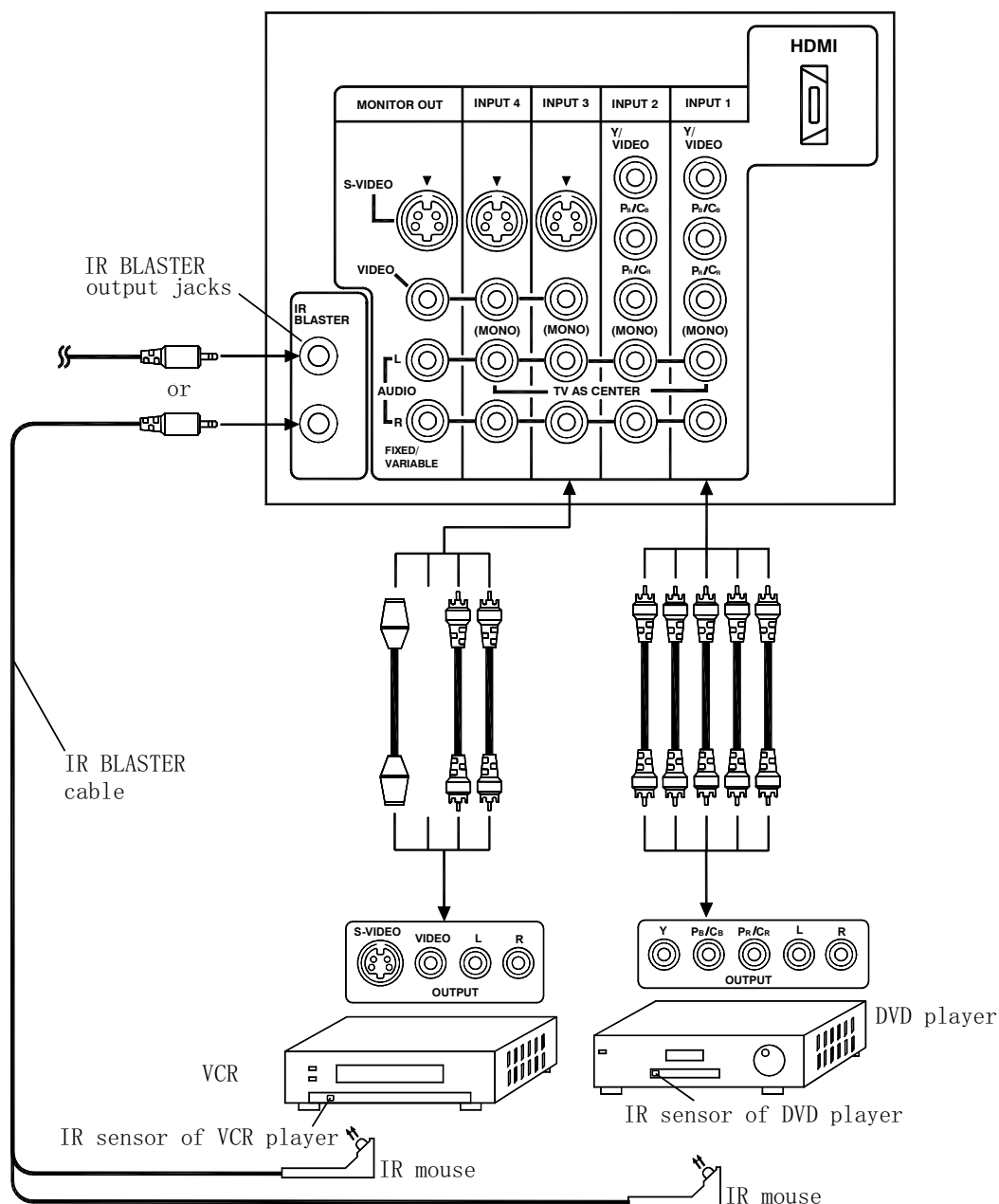
AV NET

The TV has the **AV NET** function. This function enables you to control your audio/video equipment such as VCR, DVD player, Set-Top-Box, etc with the remote control function. You can control your equipment with the applied remote control unit of the TV after using this function.

The rear panel of the TV has two IR BLASTER output jacks. The TV comes with two IR BLASTER cables. Each IR BLASTER cable can control two audio/video equipment. Please refer to the following examples when using the AV NET function.

【Connection of the external audio/video equipment】

1. Please connect your external audio/video equipment by referring to the following example. (Below shows **INPUT1** is connected to a DVD player, and **INPUT3** is connected to a VCR)
2. Please insert the plug of the IR BLASTER cable into the IR BLASTER output jacks on the rear panel of the TV.
3. Please place the IR mouse near and face the IR sensor of the DVD player and the VCR. Please refer to the instruction manual of the DVD player and the VCR for the IR sensor location.



AV NET

【Setting up the type codes and the input terminals of the external audio/video equipment】

You must set up the **Type** and **Input** of the corresponding audio/video equipment after the audio/video equipment and the IR BLASTER cable are connected to the TV so that you can control your external equipment with the **AV NET** function. If you fail to find the type codes of your external audio/video equipment or your equipment's brands are not in the list of models, please refer to page 46-48 on **【How to learn the remote code of the external audio/video equipment】** to learn the remote code of the external audio/video equipment.

The DVD player which is connected to the **INPUT1** terminals is used as an example to illustrate how to set the **Type** and the **Input** of the external audio/video equipment.

1. Press the **MENU** button to display menu. Press the **▲** **▼** cursor buttons to select the **Setup** item and press the **ENTER** button to enter the **Setup** menu. Then press the **▼** cursor button to select the **AV NET** item as shown on the right.

Setup ▼

Preset

Easy Preset

Auto Link

AV NET ▶

Speaker

Audio Out

Language

Text Language

➔ Select ENTER Set RETURN Return

On

Fixed

中文 ENGLISH

EAST EUROPE

2. Press the **ENTER** button to enter the **AV NET** menu. Press the **▲** **▼** cursor buttons to select the **DVD** item as shown on the right and the item will be displayed in green, indicating it is selected.

The devices corresponding to the external equipment are shown as below.

Device	External equipment
DVD	DVD player
VCR	VCR
AVR	AV receiver or amplifier
CD	CD player
CBL	Cable TV set-top box
STB	Satellite set-top box

AV NET ▼

Device	Type	Input	Test/Learn
DVD ▶	—	AV1	⏻
VCR	0042	Off	⏻
AVR	1801	Off	⏻
CD	0032	Off	⏻
CBL	0011	Off	⏻
STB	0819	Off	⏻
Custom	DVD2	Off	Learn

➔ Select RETURN Return

As for the **Custom**, please refer to page 46-48 on **【How to learn the remote code of the external audio/video equipment】**.

3. Press the **▶** cursor button to enter the **Type** item as shown on the right and the “—” will be displayed in green, indicating it can be altered. Press the number from **0** to **9** on the remote control unit to input the type code of your external audio/video equipment. (Please refer the type code lists for the codes of your external audio/video equipment.) For example, the type code of a DVD player is 0664, then **0**, **6**, **6**, **4** are inputted.

Note:

Some brands have a few type codes, please find one of the codes that is suitable for your external audio/video equipment.

AV NET ▼

Device	Type	Input	Test/Learn
DVD ▶	—	AV1	⏻
VCR	0042	Off	⏻
AVR	1801	Off	⏻
CD	0032	Off	⏻
CBL	0011	Off	⏻
STB	0819	Off	⏻
Custom	DVD2	Off	Learn

➔ Select 0—9 Set RETURN Return

AV NET

4. Press the cursor button to enter the **Input** item of DVD as shown below. Press the cursor buttons to select the terminal connected to your external audio/video equipment. You can choose **Off**, **AV1**, **AV2**, **AV3**, **AV4** or **AV5**. **AV1** is chosen as the DVD player in the example is connected to the **INPUT1** terminals.

Notes:

For DVD, AVR, CD, STB, DVD2, AVR2, CD2 and STB2, you can choose the **Input** item from **Off**, **AV1**, **AV2**, **AV3**, **AV4** or **AV5**.

For VCR, CBL, VCR2 and CBL2, you can choose the **Input** item from **Off**, **AV1**, **AV2**, **AV3**, **AV4**, **AV5** or **TV (0P)**.

When using this function, the TV will switch to the AV1~AV5 mode automatically to the chosen **Input** item accordingly.

When using this function, the TV will switch to the program No.0 automatically if the **Input** item is set to **TV (0P)**.

When using this function, the TV will remain the current state if the **Input** item is set to **Off**.

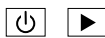
AV NET ▼			
Device	Type	Input	Test/Learn
DVD ▶	0664	AV1	
VCR	0042	Off	
AVR	1801	Off	
CD	0032	Off	
CBL	0011	Off	
STB	0819	Off	
Custom	DVD2	Off	Learn
Select Set RETURN Return			

5. Press the cursor button to enter the **Test/Learn** option as shown on the right. When the option of the **Device** is supposed to be **DVD**, **VCR**, **AVR**, **CD**, **CBL** or **STB**, this **Test/Learn** option is **Test**.

Turn on the DVD player. Press the **ENTER** button, the symbol will appear in yellow for about one second and the infrared signal will be emitted by the IR mouse. Please check that the power of your DVD player has the corresponding actions.

You can select the other buttons to test by pressing the cursor buttons.

The test buttons for DVD/CD are:



The test buttons for VCR are:



The test buttons for CBL/STB are:



The test buttons for AVR are:



AV NET ▼			
Device	Type	Input	Test/Learn
DVD ▶	0664	AV1	
VCR	0042	Off	
AVR	1801	Off	
CD	0032	Off	
CBL	0011	Off	
STB	0819	Off	
Custom	DVD2	Off	Learn
Select Set Test Return			

Please refer to page 45 on **【Using the AV NET function】** if the test succeeded.

Please use other type codes (if available) and repeat step 3 or refer to page 46-48 on **【How to learn the remote code of the external audio/video equipment】** if the test failed.

Notes:

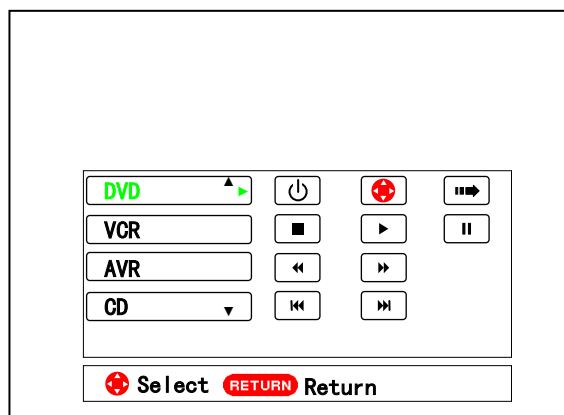
- (1) Not all audio/video equipment brands or models are suitable for the **AV NET** function even if the **Type** and the **Input** item have been set up.
- (2) When the **Device** item is **Custom**, the **Test/Learn** option is **Learn**. Please refer to **【How to learn the remote code of the external audio/video equipment】** for more information on the **Custom** function.

AV NET

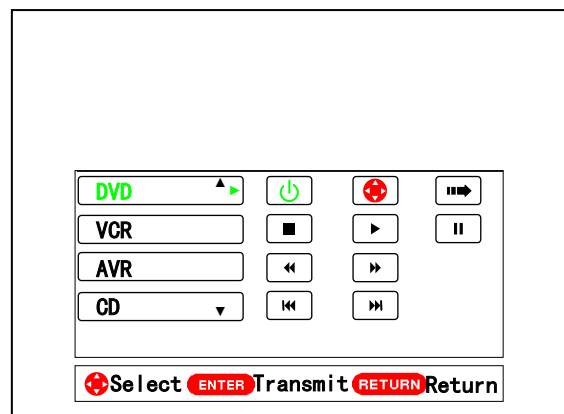
【Using the AV NET function】

You can use the **AV NET** function if the test succeeded. The DVD player which is connected to the **INPUT1** terminals is used as an example to illustrate how to use the **AV NET** function.

1. Press the **AV NET** button to display the menu as shown on the right. Press the **▲** **▼** cursor buttons to select **DVD** if you want to control the DVD player that is connected to the **INPUT1** terminals.



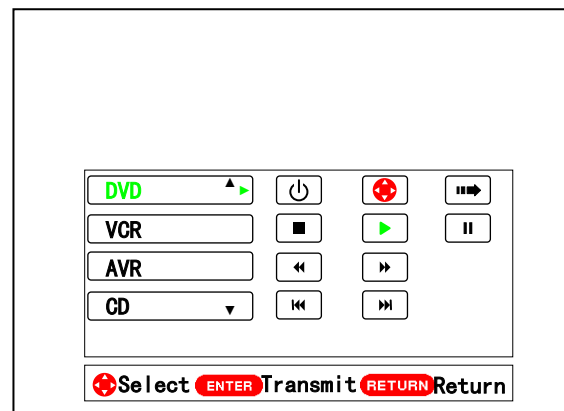
2. The TV will switch to the **AV1** mode* automatically by pressing the **▶** cursor button and the **⏻** item will be displayed in green simultaneously. Press the **ENTER** button, the **⏻** item will be displayed in yellow for about one second. The IR mouse will output infrared signal to turn on or turn off the DVD player's power.



Note*:

The TV will switch to a corresponding mode automatically according to the **Input** setting of the **AV NET** menu. As the example shows, the set will switch to **AV1** mode automatically because the **Input** setting which corresponds to **DVD** item is **AV1**.

3. You can play the DVD by pressing the **▲** **▼** **◀** **▶** cursor buttons to enter the **▶** item and the **▶** item will be displayed in green. Press the **ENTER** button, the **▶** item will be displayed in yellow for about 1 second and the IR mouse will output infrared signal to DVD player, then the DVD player will play the disc.



4. For the other function keys, please refer to step 3 and operate according to the corresponding hints on the screen.

Note:

- (1) Press the **▲** **▼** **◀** **▶** cursor buttons to select the **⏻** item, and then press the **ENTER** button to enter the button menu operated by the cursor. At this point, if you press the cursor **▲** **▼** **◀** **▶**, **MENU**, **ENTER**, **RETURN** buttons on the remote control unit of the TV, they correspond to the **▲** **▼** **◀** **▶**, **MENU**, **ENTER**, **RETURN** buttons of DVD player.
- (2) Press the **▲** **▼** **◀** **▶** cursor buttons to select the **▶** item, and then press the **ENTER** button to enter the next page of the menu.
- (3) The IR mouse may output nothing when you press some buttons on the menu. This is normal.
- (4) The TV provides some common function keys only for the external equipment of DVD, VCR, AVR, CD, CBL, STB, etc.

AV NET

【How to learn the remote code of the external audio/video equipment】

It enables you to realize the AV NET function by using this function if your external audio/video equipment's brands are not in the type code list. Please make sure that the IR BLASTER cable is connected as shown in **【Connection of the external audio/video equipment】** before you learn the remote codes.

The DVD player which is connected to the **INPUT1** terminals is used as an example to illustrate how to learn the remote codes of the external audio/video equipment.

1. Press the **MENU** button to display menu. Press the **▲** **▼** cursor buttons to select the **Setup** item, press the **ENTER** button to enter the **Setup** menu and then press the **▼** cursor button to choose the **AV NET** item as shown on the right.

Setup ▼	
Preset	
Easy Preset	
Auto Link	
AV NET ▶	
Speaker	On
Audio Out	Fixed
Language	中文 ENGLISH
Text Language	EAST EUROPE
⏏ Select ENTER Set RETURN Return	




2. Press the **ENTER** button to enter the **AV NET** menu. Press the **▲** **▼** cursor buttons to select the **Custom** item as shown on the right.

AV NET ▼			
Type	Type	Input	Test/Learn
DVD	0664	AV1	⏏
VCR	0042	Off	⏏
AVR	1801	Off	⏏
CD	0032	Off	⏏
CBL	0011	Off	⏏
STB	0819	Off	⏏
Custom ▶	DVD2	Off	Learn
⏏ Select RETURN Return			

3. Press the **▶** cursor button to enter the **Type** item of **Custom** option. At this point, you can choose the type options such as **DVD2**, **VCR2**, **AVR2**, **CD2**, **CBL2**, **STB2**. For example, if you want to learn the remote codes of the DVD player which is connected to the **INPUT1** terminal, please press the **▲** **▼** cursor buttons to select **DVD2**.

AV NET ▼			
Device	Type	Input	Test/Learn
DVD	0664	AV1	⏏
VCR	0042	Off	⏏
AVR	1801	Off	⏏
CD	0032	Off	⏏
CBL	0011	Off	⏏
STB	0819	Off	⏏
Custom ▶	DVD2	Off	Learn
⏏ Select ⏏ Set RETURN Return			

AV NET

4. Press the  cursor button to enter the **Input** item of **Custom** option and then press the   cursor buttons to select **AV1**.

Notes:


For DVD, AVR, CD, STB, DVD2, AVR2, CD2 and STB2, you can choose the **Input** from **Off**, **AV1**, **AV2**, **AV3**, **AV4** or **AV5**.








For VCR, CBL, VCR2 and CBL2, you can choose the **Input** from **Off**, **AV1**, **AV2**, **AV3**, **AV4**, **AV5** or **TV(0P)**.



When using this function, the TV will switch to the AV1~AV5 mode automatically to the chosen **Input** item accordingly.

When using this function, the TV will switch to the program No.0 automatically if the **Input** item is set to **TV (0P)**.



When using this function, the TV will remain the current state of current if the **Input** item is set to **Off**.










5. Press the  cursor button to enter the **Test/Learn** item of **Custom** option. The **Learn** item is selected and will be displayed in green.










6. Then press the **ENTER** button to enter **Learn** state as shown on the right. For example, you want to learn the code of DVD player's  button. Press the     cursor buttons to select the  item and the  item will be displayed in green.























7. Press the **RECALL** button, the  item will be displayed in yellow and the word "**Learning**" will appear on the lower left of the screen. At this moment, put the remote control unit of DVD player near and face the screen center of the TV and press the  button on the remote control unit of DVD player.























Notes:

- (1) You should press the  button on the remote control unit of DVD player while the word "**Learning**" is displaying.
- (2) Do not continue pressing the  button while learning.

AV NET			
Device	Type	Input	Test/Learn
DVD	0664	AV1	
VCR	0042	Off	
AVR	1801	Off	
CD	0032	Off	
CBL	0011	Off	
STB	0819	Off	
Custom	DVD2	AV1	Learn
 Select  Set  RETURN Return			

AV NET			
Device	Type	Input	Test/Learn
DVD	0664	AV1	
VCR	0042	Off	
AVR	1801	Off	
CD	0032	Off	
CBL	0011	Off	
STB	0819	Off	
Custom	DVD2	AV1	Learn
 Select  Set  RETURN Return			

AV NET	
《DVD2》	
     	
  	
     	
 Select  Recall  Learn  Test	
 CH I/II  Reset  RETURN Return	

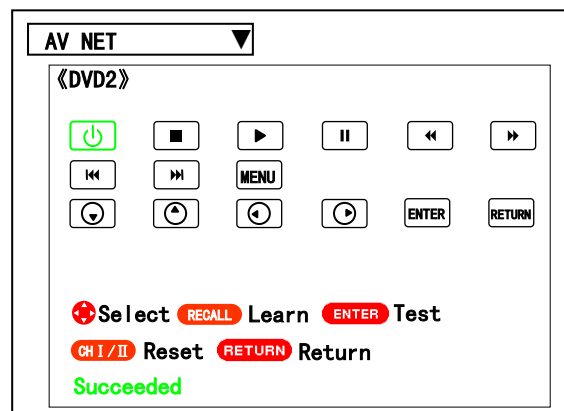
AV NET	
《DVD2》	
     	
  	
     	
 Select  Recall  Learn  Test	
 CH I/II  Reset  RETURN Return	
Learning	

AV NET

8. The word “**Succeeded**” will be displayed on the lower left corner of the screen if the code is learnt. The frame of the ⏻ item will be in yellow, indicating this item has been registered.

The word “**Failed**” will be displayed on the lower left corner of the screen if the TV fails to learn the code. Please make sure that your operations are correct and re-do according to the above steps.

The **Not Available** will be displayed on the lower left corner of the screen if the TV is lack of enough internal memory’s capacities. Please refer to the note (2) to clear the items which are seldom used in order to release the internal memory’s capacities.



9. In order to check the **AV NET** function works properly, a test must be taken on the ⏻ item after the learning succeeds. Press the **ENTER** button and the ⏻ item will be displayed in yellow for about one second, the infrared signal will be output by the IR mouse. At this moment, the power of the DVD player should have corresponding action. If not, please check the connection and repeat the learning procedures.
10. If you want to learn the other keys of the DVD player. Please refer to the above steps and operate according to the hints on the screen.
11. You can control the DVD player by using the remote control unit of the TV after learning the related keys.
Usage: Press the **AV NET** button to enter the **AV NET** mode. Press the ▲ ▼ cursor buttons to select **DVD2** and then refer to **【Using the AV NET function】** for more information.

Notes:

- (1) The set can only learn and record remote codes of one of the external equipment. For example, you learn the codes of VCR2 after finishing learning the codes of DVD2, the set will record the codes of VCR2 only.
- (2) Please select the learned items in order to clear their codes by pressing the **CH I / II** button to release the occupied internal memory’s capacities. The outer frame of the reset items will return to white display.
- (3) Due to the compatibilities of the equipment and the TV, sometimes the remote codes of some equipment cannot be learned by the TV. This is normal.

【External audio/video equipment type code】

1. DVD.....	CODE		
AMW.....	0872	Olidata.....	0672
Afreedy.....	0698	Onkyo.....	0627, 0503
Aiwa.....	0641	Oritron.....	0651
Akai.....	0770, 1089	Palsonic.....	0672, 0852
Alba.....	0717, 0539, 0672	Panasonic.....	0490, 1762, 0632
Allegro.....	0869	Panda.....	1203
Amoisonic.....	0764, 0835	Philco.....	0733
Apex Digital.....	0755, 0672, 0796, 1020, 1056	Philips.....	0885, 0646, 0675, 0503, 0539
.....	1061, 0717, 0794, 0797, 1004	Pioneer.....	0525, 0631, 0638, 0571, 0632
B & K.....	0655, 0662	Polaroid.....	1061, 1086
BBK.....	0863	Polk Audio.....	0539
Big Echo.....	1050	Portland.....	0770
Blaupunkt.....	0717	ProVision.....	0778
Blue Parade.....	0571	Proscan.....	0522
Bubugao.....	0863	Qisheng.....	1206
Celestial.....	1020	Qwestar.....	0651
Centrex.....	0672, 1004	RCA.....	0522, 0571, 0717
Changhong.....	0627, 1061	Recco.....	0698
CineVision.....	0869	Reoc.....	0752
Cirrus.....	0700	Revoy.....	0699
Coby.....	1086, 0778, 0852, 1107	Rio.....	0869
Cydetin.....	1074	Rotel.....	0623
DVD2000.....	0521	Rowa.....	0823, 1004
Daewoo.....	0833, 0869, 0705, 0770	SVA.....	0860, 1105, 0672, 0717, 1209
Dansai.....	0770	Sampo.....	0698, 0752
Daytek.....	0872	Samsung.....	0820, 1075, 0490, 0573, 0744
Decca.....	0770	Sanyo.....	0670, 0873
Denon.....	0634, 0490	Sast.....	1201, 1207
Denver.....	0778	Schwaiger.....	0752
DiViDo.....	0705	Semp.....	0503
Digitrex.....	1056, 0672	Sharp.....	0630, 0752
Doublez.....	0490, 0634	Sherwood.....	0633, 0770
Emerson.....	0591, 0675	Shinco.....	0717
Enterprise.....	0591	Shinsonic.....	0533, 0839
Fisher.....	0670	Simaudio.....	0885
Fun TV.....	1055	Skyworth.....	0766, 0898
Funai.....	0675	Sonic Blue.....	0869
GE.....	0717, 0522	Sony.....	0533, 0864
GPX.....	0699	Sungale.....	1074
Go Video.....	0741, 1075, 0744, 0833, 0869	Superb.....	0855
GoldStar.....	0741	Sylvania.....	0675
Goodmans.....	1004	Symphonic.....	0675
Gradiente.....	0651	TCL.....	1180, 1182, 1189
Greenhill.....	0717	TYT.....	0705
Grundig.....	0539, 0705	Tatung.....	0770
HiMAX.....	0843	Teac.....	0717, 0571, 0692
Hitachi.....	0573, 0664	Technics.....	0490
Hiteker.....	0672	Techwood.....	0692
Idall.....	1208	Theta Digital.....	0571
Initial.....	0717	Thomson.....	0522
Integra.....	0627	Toshiba.....	0503
JVC.....	0623, 0867, 0558	Tredex.....	0800, 0799, 0803, 0804, 0843
JWin.....	1051, 1049	Tsinghua Tongfang.....	1204, 1205
KLH.....	0717, 1020, 1149	US Logic.....	0839
Kenuo.....	1175	Universum.....	0591
Kenwood.....	0534, 0490	Urban Concepts.....	0503
Konka.....	0719, 0711, 0720, 0721, 1192	Wesder.....	0699
Koss.....	0651	Wintel.....	1131
LG.....	0869, 0591, 0741	XBox.....	0522
Landel.....	0826	Yamada.....	1004
Lasonic.....	0798	Yamaha.....	0490, 0539, 0545
Loewe.....	0885	Zenith.....	0591, 0741, 0869, 0503
Magnavox.....	0503, 0675		
Malata.....	0782	2. VCR.....	CODE
Marantz.....	0539	ASA.....	0081, 0037
MDS.....	1111	Admiral.....	0048, 0209
Memorex.....	0831	Adventura.....	0000
Microsoft.....	0522	Adyson.....	0072
Minato.....	0752	Aiko.....	0278
Mintek.....	0717, 0839	Aiwa.....	0000, 0209, 0037, 0307, 0479
Mirror.....	0752	Akai.....	0053, 0041, 0315
Mitsubishi.....	0521	Akiba.....	0072
Momitsu.....	1082	Akura.....	0072
NAD.....	0692	Alba.....	0072, 0000, 0278, 0209, 0315
NEC.....	0869	Allstar.....	0081
Nesa.....	0717	America Action.....	0278
Next Base.....	0826	American High.....	0035
Nintaus.....	0793, 1202	Amoisonic.....	0479
Nissho Iwai.....	1055	Amstrad.....	0000, 0072
Norcent.....	0872, 0895, 1107	Anam.....	0162, 0226, 0240, 0037, 0278
		Anam National.....	0162, 0226
		Anitech.....	0072
		Aristona.....	0081
		Asha.....	0240
		Asuka.....	0037
		Audiosonic.....	0278
		Audiovox.....	0278, 0037
		Baird.....	0041, 0000
		Basic Line.....	0278, 0072
		Beaumarck.....	0240
		Bestar.....	0278
		Blaupunkt.....	0162, 0081, 0226, 0227
		Bondstec.....	0072
		Brandt.....	0041
		Brandt Electronic.....	0041
		Broksonic.....	0209, 0184, 0479
		Bush.....	0072, 0315, 0209, 0278
		CCE.....	0072, 0278
		CGE.....	0000
		Calix.....	0037
		Canon.....	0035
		Carena.....	0209
		Carrefour.....	0045
		Carver.....	0081
		Cathay.....	0278
		Changhong.....	0048, 0081
		Cimline.....	0072
		Cineral.....	0278
		Citizen.....	0037, 0278
		Colt.....	0072
		Condor.....	0278
		Craig.....	0037, 0072, 0047, 0240
		Crown.....	0278, 0072
		Curtis Mathes.....	0035, 0041, 0060, 0162
		Cybernex.....	0051, 0240
		Cyrus.....	0081
		Daewoo.....	0278, 0046, 0045
		Dansai.....	0072, 0278
		De Graaf.....	0081, 0048, 0042, 0046
		Decca.....	0000, 0067, 0081, 0209
		Denon.....	0042
		Diamant.....	0037
		Domland.....	0209
		Dual.....	0041, 0081, 0278
		Dumont.....	0081, 0000
		Durabrand.....	0038, 0039
		Dynatech.....	0000
		ESC.....	0240, 0278
		Elbe.....	0038, 0278
		Elcatech.....	0072
		Electrohome.....	0037
		Electrophonic.....	0037
		Elin.....	0051, 0240
		Elsay.....	0072
		Elta.....	0072, 0278
		Emerex.....	0032
		Emerson.....	0184, 0043, 0278, 0000, 0035, 0037
		0045, 0072, 0209, 0240, 0479
		Ferguson.....	0041, 0000, 0053
		Fidelity.....	0000, 0072
		Finlandia.....	0081, 0000, 0048, 0042
		Finlux.....	0081, 0042, 0000
		Firstline.....	0072, 0209, 0043, 0037, 0045
		Fisher.....	0047, 0046
		Flint.....	0209
		Fuji.....	0033, 0035
		Fujitsu.....	0000, 0045, 0052
		Funai.....	0000, 0593
		GE.....	0035, 0060, 0226, 0240
		GEC.....	0081
		Galaxis.....	0278
		Garrard.....	0000
		General.....	0052, 0045
		GoldHand.....	0072
		GoldStar.....	0037, 0038, 0209, 0226
		Goodmans.....	0072, 0278, 0081, 0062, 0000, 0037
		Gradiente.....	0000
		Graetz.....	0041, 0240
		Granada.....	0081, 0000, 0048, 0240, 0037
		0042, 0046, 0226
		Grandin.....	0072, 0000, 0037, 0278

【External audio/video equipment type code】

Grundig.....	0081, 0226, 0072	Okano.....	0072, 0315	Sony.....	0032, 0033, 0000, 0035
HCM.....	0072	Olympus.....	0035, 0226	Soundwave.....	0209, 0037
HI-Q.....	0047	Optimus.....	0162, 0058, 0593, 0037, 0048	Ssangyong.....	0072
Hanseatic.....	0037, 0209	Optonica.....	0062	Stern.....	0278
Haojie.....	0240	Orion.....	0209, 0184, 0479	Sunkai.....	0209
Harley Davidson.....	0000	Osaki.....	0072, 0000, 0037	Sunstar.....	0000
Harman/Kardon.....	0038, 0081	Otake.....	0209	Suntronic.....	0000
Harwood.....	0072	Otto Versand.....	0081	Sunwood.....	0072
Headquarter.....	0046	Palladium.....	0209, 0041, 0072, 0037, 0240	Supra.....	0037
Hinari.....	0072, 0041, 0240, 0278	Panasonic.....	0226, 0162, 0227, 0035	Sylvania.....	0000, 0035, 0593, 0043, 0081
Hischito.....	0045	Pathe Cinema.....	0043	Symphonic.....	0000, 0593
Hitachi.....	0042, 0240, 0000, 0081, 0037, 0041, 0089	Pathe Marconi.....	0041	TMK.....	0240
Hornophone.....	0081	Penney.....	0035, 0042, 0240, 0037, 0038	Taisho.....	0209
Hughes Network Systems.....	0042	Pentax.....	0042	Tandberg.....	0278
Hypson.....	0072, 0278, 0209	Perdio.....	0000, 0209	Tandy.....	0000
ITT.....	0041, 0046, 0240	Philco.....	0038, 0479, 0000, 0035, 0072, 0209, 0226	Tashiko.....	0000, 0240, 0081, 0048, 0037
ITV.....	0037, 0278	Philips.....	0062, 0593, 0000, 0035, 0081, 0226	Tatung.....	0000, 0081, 0048, 0043, 0053
Imperial.....	0000	Phonola.....	0081	0041, 0045, 0067, 0209
Ingersol.....	0209, 0240	Pilot.....	0037	Teac.....	0000, 0593, 0041, 0307, 0278
Inno Hit.....	0072, 0240	Pioneer.....	0081, 0058, 0042, 0067	Tec.....	0072, 0278
Interfunk.....	0081	Polk Audio.....	0081	Tech Line.....	0072
Intervision.....	0278, 0000, 0037, 0209	Portland.....	0278	Technics.....	0035, 0162, 0226
Irradio.....	0072, 0081	Precision.....	0058	Teco.....	0035, 0037, 0038, 0041, 0048
JVC.....	0067, 0041, 0045	ProVision.....	0278	Teknika.....	0000, 0035, 0037, 0052
Jensen.....	0041	Profitronic.....	0240, 0081	Teleavia.....	0041
KEC.....	0037, 0278	Proline.....	0000	Telefunken.....	0041
KLH.....	0072	Proscan.....	0060	Teletch.....	0072
Kaisui.....	0072	Prosonic.....	0278	Tenosal.....	0072
Kendo.....	0209, 0315, 0072	Protec.....	0072	Tensai.....	0072, 0000
Kenwood.....	0041, 0067, 0038, 0046	Pulsar.....	0039, 0051	Thomas.....	0000
Kimari.....	0047	Pye.....	0081	Thomson.....	0041, 0067, 0278, 0060
Kodak.....	0035, 0037	Qisheng.....	0060	Thorn.....	0037, 0041
Kolin.....	0041, 0043	Quarter.....	0046	Tokai.....	0072
Korpel.....	0072	Quartz.....	0046	Toshiba.....	0045, 0081, 0043, 0041, 0067
Kuba Electronic.....	0047	Quasar.....	0035, 0162, 0278	Totevision.....	0037, 0240
Kyoto.....	0072	Quelle.....	0081	Uher.....	0240
LG.....	0037, 0038, 0042, 0045, 0051, 0053, 0209	RCA.....	0058, 0000, 0035, 0042, 0060, 0226, 0240	Ultravox.....	0278
LXI.....	0037	RFT.....	0072	Unitech.....	0240
Lenco.....	0278	Radialva.....	0037, 0048	Universum.....	0081, 0000, 0037, 0240
Leyco.....	0072	RadioShack.....	0000	Vector.....	0045
Lloyd's.....	0000	Radiola.....	0081	Vector Research.....	0038
Loewe.....	0081, 0037, 0162	Radix.....	0037	Victor.....	0067, 0041
Logik.....	0240, 0209, 0072	Randex.....	0037	Video Concepts.....	0045
Luxor.....	0046, 0043, 0062, 0047, 0048, 0072	Realistic.....	0047, 0037, 0000, 0035, 0046, 0048, 0062	Videomagic.....	0037
M Electronic.....	0037, 0000, 0038	Rex.....	0041	Videosonic.....	0240
MEI.....	0035	Roadstar.....	0037, 0072, 0240, 0278	Villain.....	0000
MGA.....	0043, 0240	Runco.....	0039	Wards.....	0060, 0000, 0047, 0048, 0240
MGN Technology.....	0240	SBR.....	0081	0035, 0042, 0062, 0072, 0081
MTC.....	0000, 0240	SEG.....	0072, 0278, 0240	Watson.....	0081
Magnasonic.....	0593	SEI.....	0081	Wharfedale.....	0593
Magnavox.....	0035, 0593, 0000, 0039, 0081	STS.....	0042	White Westinghouse.....	0072, 0209
Magnin.....	0240	Saba.....	0041	XR-1000.....	0000, 0035, 0072
Manesth.....	0072, 0045, 0081, 0209	Saisho.....	0209	Yamaha.....	0038, 0041
Marantz.....	0062, 0209, 0035, 0081	Salora.....	0046, 0043	Yamishi.....	0072, 0278
Marta.....	0037	Sampo.....	0037, 0048	Yokan.....	0072
Matsui.....	0209, 0240, 0000	Samsung.....	0240, 0045, 0051, 0053	Yoko.....	0240
Matsushita.....	0227, 0035, 0162, 0226	Sanky.....	0039, 0048	Zenith.....	0033, 0039, 0479, 0000, 0209
Memorex.....	0046, 0047, 0479, 0035, 0240, 0307	Sansui.....	0041, 0067, 0000, 0209, 0479		
.....	0000, 0037, 0039, 0048, 0162, 0209	Sanyo.....	0046, 0047, 0048, 0159, 0240		
Memphis.....	0072	Sast.....	1116		
Metronic.....	0081	Saville.....	0240, 0278		
Metz.....	0037, 0081, 0162, 0227	Schaub Lorenz.....	0000, 0041		
Minolta.....	0042	Schneider.....	0081, 0000, 0037, 0042, 0278, 0072, 0240		
Mitsubishi.....	0043, 0081, 0041, 0067	Scott.....	0184, 0043, 0045		
Motorola.....	0035, 0048	Sears.....	0042, 0046, 0037, 0000, 0035, 0047		
Multitech.....	0000, 0072	Seleco.....	0041, 0037		
Murphy.....	0000	Semp.....	0045		
Myryad.....	0081	Sentra.....	0072		
NAD.....	0058	Sharp.....	0048, 0062, 0209		
NAP.....	0039	Shinco.....	0000		
NEC.....	0038, 0035, 0037, 0041, 0048, 0067	Shintom.....	0072		
National.....	0226	Shivaki.....	0037		
Neckermann.....	0081	Shogun.....	0051, 0240		
Nesco.....	0072	Siemens.....	0081, 0037		
Newave.....	0037	Siera.....	0081		
Nikkai.....	0072, 0278	Silva.....	0037		
Nikko.....	0037	Singer.....	0045, 0072		
Noblex.....	0240	Sinudyne.....	0081, 0209		
Nokia.....	0041, 0048, 0278, 0240, 0046	Sonneclair.....	0072		
Nordmende.....	0041	Sonoror.....	0046, 0062		
Oceanic.....	0048, 0081, 0000, 0041, 0046	Sontec.....	0037, 0278		

3. AVR..... CODE

(1) Amplifier

Acurus.....	1431
Bose.....	0674
Classe.....	1461
Classic.....	1595
Denon.....	0272, 0522
Epoch.....	1431
Eroica.....	0579
JVC.....	0331
Korsun.....	1483
Luxman.....	0165
Marantz.....	0321
Mark Levinson.....	1483
NEC.....	0116, 0131, 0264
Nakamichi.....	0321
PS Audio.....	1523
Sansui.....	0321, 0652
Sharp.....	0226
Shure.....	0264
Sony.....	0220, 0689
TCL.....	1591

【External audio/video equipment type code】

Temei Sheng.....1603
 Toshiba.....0353
 Victor.....0331
 Yamaha.....0143, 0354

(2) AV Receiver

ADC.....0531
 AVLlight.....0158
 Aiwa.....1388, 1641, 0121, 0158, 1405
 Akai.....0115
 Alco.....1390
 Anam.....0112, 0281, 1074, 1609
 Apex Digital.....1257, 1430
 Audiolab.....1189
 Audiotronic.....1189
 Audiovox.....1390
 Bose.....1229
 Capetronic.....0531
 Carver.....1189
 Centrex.....1257
 Classic.....1352
 Coby.....1263, 1389
 Daewoo.....1250
 Denon.....1360
 Ferguson.....0531
 Fine Arts.....1189
 Fisher.....1801
 Fonmix.....1360
 GTX.....0112
 Garrard.....0281
 Glory Horse.....1263
 GoldStar.....0281, 0112
 Grundig.....1189, 0281
 Harman/Kardon.....0110
 Hitachi.....1801
 Initial.....1426
 Inkel.....0027
 Integra.....0135, 1298
 JBL.....0281, 0110
 JVC.....1374, 1282, 0074, 0531, 1263
 KLH.....1390, 1412, 1428
 Kenwood.....0027, 0186, 1313, 1569, 1570
 Koss.....1366
 LG.....1293
 Lasonic.....1798
 Liquid Video.....1497
 M Electronic.....0112
 MCS.....0039
 Magnavox.....1269, 0531, 1189
 Marantz.....0039, 1189, 1269, 1289
 Micromega.....1189
 Myryad.....1189
 Norcent.....1389
 Onkyo.....0135, 1298, 0842
 Optimus.....1023, 0531, 1074, 0186, 0670
 Oritron.....1366, 1497
 Panasonic.....1548, 1288, 1316, 1763, 1764, 0039, 1518
 Philco.....1390
 Philips.....1266, 1189, 1269, 1289
 Pioneer.....1384, 0150, 0531, 0630, 1023, 1184
 Polk Audio.....1289
 Qisheng.....1390, 1609
 Quasar.....0039
 RCA.....1390, 1609, 0531, 1074, 1023
 RadioShack.....1263
 Saba.....0531
 Samsung.....0112, 1295, 1581, 1500
 Sanyo.....1469, 1801
 Schneider.....0531
 Shangling.....1608
 Sharp.....0186
 Sharper Image.....1263
 Shinco.....1390
 Shinsonic.....1426
 Silsonic.....0176, 1426
 Sonic.....0281
 Sony.....1658, 0158, 1558, 1058, 1258, 1441
 Soundesign.....0670
 Stereophonics.....1023
 Sunfire.....1313

Teac.....0112, 1390, 1528, 1074
 Technics.....0039, 1308, 1518
 Techwood.....0281
 Telefunken.....0531
 Thorens.....1189
 Uher.....0531
 Universum.....0281, 0112, 1609
 Venturer.....1390
 Victor.....0074
 Wards.....0158
 Yamaha.....0176, 0186, 1331, 1176
 Yukai.....1352
 Zenith.....1293, 0281

4. CD.....CODE

ADC.....0018
 Acoustic Research.....0420
 Aiwa.....0124, 0157
 Akai.....0156
 Alto.....0625
 Anam.....0362
 Arcam.....0157
 Ariston.....0625
 Audio Research.....0157
 AudioTon.....0157
 Audiolab.....0157
 Audiomeca.....0157
 Burmester.....0420
 CCE.....0157
 CDC.....0420
 Cairn.....0157
 California Audio Labs.....0029, 0303
 Cambridge Audio.....0625
 Carver.....0157, 0179
 Classic.....1297
 Copland.....0393
 Cyrus.....0157
 DKX.....0000
 DMX Electronics.....0157
 Denon.....0003, 0873
 Dual.....0196
 Dynamic Bass.....0179
 Eclipse.....0625
 Elektra.....0393
 Fisher.....0179
 GTX.....0362
 Garrard.....0393, 0420
 Gemini.....0625
 Genexxa.....0032
 GoldStar.....0383
 Goodmans.....0362, 0625
 Grundig.....0157
 HCM.....0625
 Harman/Kardon.....0157
 Hiro.....0625
 Hitachi.....0032
 Inkel.....0114, 0196, 0203, 0065, 0180
 Integra.....0101
 JVC.....0072
 KLH.....1372
 Kenwood.....0028, 0036, 0037, 0190, 0626, 0681, 0826
 Korsun.....1484
 Krell.....0157
 Kyocera.....0018
 LG.....1208
 Linn.....0157
 MCS.....0029
 MTC.....0420, 0625
 Magnavox.....0157
 Marantz.....0157, 0029, 0180, 0626
 Mark Levinson.....1484
 Matsui.....0157
 Memorex.....0180
 Meridian.....0157
 Micromega.....0157
 Miro.....0000
 Mission.....0157
 Mitsubishi.....0156
 Myryad.....0157
 NAD.....0000, 1208

NSM.....0157
 Nagaoka.....0018
 Naim.....0157
 Nikko.....0362, 0625
 Onkyo.....0101, 0381, 0868
 Optimus.....0468, 0420, 1063, 0000, 0032
0037, 0179, 0196
 Panasonic.....0029, 0303
 Parasound.....0420
 Philips.....0157, 0626
 Pink Triangle.....0625
 Pioneer.....0032, 1087, 0468, 1062, 1063
 Polk Audio.....0157
 Proton.....0157
 QED.....0157
 Quad.....0157
 Quasar.....0029
 RCA.....0032, 1062, 0468, 0420, 0179
 Radiotone.....0625
 Realistic.....0179, 0180, 0420
 Revox.....0157
 Rotel.....0157, 0420
 Royal.....0420
 SAE.....0157
 STS.....0018
 Samsung.....0602
 Sansui.....0202, 0157, 0625
 Sanyo.....0179, 0349
 Sast.....0157
 Sharp.....0037, 0180, 0261, 0861
 Sherwood.....0065, 0114, 0180, 0196
 Shinco.....1372
 Siemens.....0362
 Silsonic.....0036, 0888
 Simaudio.....0157
 Sonic Frontiers.....0157
 Sony.....0000, 0490, 1364
 SuperTech.....0625
 Synergy.....0625
 TAG McLaren.....0157
 TCL.....0383
 TDK.....1208
 Tandberg.....0203
 Tandy.....0032
 Tascam.....0420
 Teac.....0362, 0625, 0180, 0393, 0420
 Technics.....0029, 0207, 0303
 Techwood.....0362
 Thorens.....0157
 Toshiba.....0481
 Universum.....0157, 0362
 Victor.....0072
 Wards.....0157
 YBA.....0625
 Yamaha.....0187, 0036, 0261, 0888, 1292
 Zonda.....0157

5. CBL.....CODE

ABC.....0003, 0008, 0011, 0014, 0033, 0047
 Ajinvision.....1271
 Archer.....0797
 Bell & Howell.....0014
 Bestlink.....0303
 British Telecom.....0003
 ClearMax.....0883
 Clearmaster.....0883
 Comtronics.....0040
 Coolmax.....0883
 Coship.....1462
 Daehan.....0778
 Daeryung.....0008, 0877, 1877
 Digi.....0637
 Director.....0476
 Dumont.....0637
 Electricord.....0078
 Emerson.....0797
 Everquest.....0040
 Funai.....0248
 GHZ.....0078
 GMI.....0797

【External audio/video equipment type code】

GNI.....	1466	Crossdigital.....	1109
Galaxi.....	0008	Cyrus.....	0200
Gehua.....	0476	D-box.....	0723, 0873, 1127
Gemini.....	0797	DNT.....	0200
General Instrument.....	0003, 0011, 0014, 0476	DirecTV.....	0247, 1109, 0099, 0639, 0819
GoldStar.....	0040, 0144, 0838	Echostar.....	0853
Goodmind.....	0797	Elta.....	0200
Hitachi.....	0011, 0014, 0033, 0255	Gold Box.....	0853
Hwalin.....	0303	Gradiente.....	0856
IEEC.....	1018	Hitachi.....	0819, 1250
Jerrold.....	0003, 0011, 0014, 0047, 0476	Humax.....	1406, 1407
Jiuzhou.....	1445	Innova.....	0099
Koka.....	0255	Jiuzhou.....	1450
LG.....	0040, 0144, 0779, 0838	Kathrein.....	0200
MS.....	0303, 1018	LG.....	1226
Macom.....	0033	MDS.....	1391, 1401
Motorola.....	0476, 1254	MMEN.....	1391
Movie Time.....	0078	Marantz.....	0200
Now.....	0776	MediaSat.....	0853
Oak.....	0248, 0303	Mega.....	0200
PVP Stereo Visual Matrix.....	0003	Morgan's.....	0200
Pace.....	0237, 1877	Myriad.....	0200
Pacific.....	1410	NEC.....	1270
Panasonic.....	0008, 0040	Netsat.....	0099
Panther.....	0637	Nikko.....	0200
Philips.....	0255, 0305, 0317	Nokia.....	0873, 1023, 0751, 0723, 1127
Pioneer.....	1021, 1877, 0144, 0533, 0877	Pace.....	0200
RadioShack.....	0883, 0303, 0797	Panasonic.....	0247, 1404
Rampage.....	0255	Philips.....	0200, 0853, 0099, 0856, 1114
Rembrandt.....	0011	Pioneer.....	0853
SL Marx.....	0040	QNS.....	1367, 1402, 1404
Samsung.....	0702, 0040, 0144, 0840	RFT.....	0200
Sast.....	1091	Radiola.....	0200
Scientific Atlanta.....	0008, 0877, 1877	SKY.....	0099, 0856
Seawoo.....	0073, 0780	SVA.....	1455
Shida.....	0777	Sagem.....	0820, 1114
Signal.....	0040	Samsung.....	1109, 1276
Signature.....	0011	Skymax.....	0200
Skyworth.....	1464	Sony.....	0639
Sony.....	1006	TCL.....	1143
Starcom.....	0003, 0014, 0047	TPS.....	0820
Stargate.....	0040, 0797	Thomson.....	0853
Storm.....	1018	Unisat.....	0200
Supermax.....	0883	Ventana.....	0200
TCL.....	1445	Zenith.....	0856
TS.....	0003, 0255, 0303, 1018	Zeta Technology.....	0200
Tadiran.....	0040		
Tae Kwang.....	0068		
Taepyung.....	1410		
Taihan.....	0778		
Teac.....	1018		
Teleview.....	0040		
Thunderstone.....	1355		
Timeless.....	0040		
TongKook.....	0777, 0840		
TopStone.....	1355		
TopTV.....	1465		
Torx.....	0003		
Trans PX.....	0303		
Tristar.....	0883		
UBS.....	0073		
United Cable.....	0003		
Universal.....	0078		
V2.....	0883		
ViewMaster.....	0883		
Vision.....	0883		
Visionetics.....	1374		
Vortex View.....	0883		
Wiso.....	0078		
Zenith.....	0525		

6. STB.....CODE

ADB.....	1367
Akai.....	0200
Allsat.....	0200
Asat.....	0200
Canal Digital.....	0853
Canal Satellite.....	0853
Canal+.....	0853
Century.....	0856

TELETEXT

Name of buttons	Operation
TV/TEXT	Switches between TV mode and TELETEXT mode.
INDEX	Selects the index page.
SUB	Allows receiving of a sub page. The sub page number and the color key will be displayed.
RED (POSITION) GREEN (SWAP) YELLOW (A/B) BLUE (MULTI PIC.)	Each of these buttons select a link page displayed on the lower part of the screen.
U.N.L	Changes the screen display mode through the following. •upper half screen enlarged •lower half screen enlarged •normal state
HOLD	Holds the page currently being displayed on the screen. Instead of the number, 'HOLD' indicator appears on the top left of the screen. Press this button again to release the hold state.
REVEAL	Allows hidden information (found on some teletext pages) to be displayed on the screen.
PAGE ▲ / ▼	Increase/ decrease the page number.
CANCEL	This button is used to return the screen to the TV mode temporarily while the TV is searching a required text page. Press this button again to display the teletext screen.
MODE	This button is used to switch between FASTEXT and LIST mode. FASTEXT is to link the four 'prompt' information on the lower part of the screen, represented by the four colors which match the color buttons on the remote control.

TO ADJUST THE TELETEXT CONTRAST

While in TELETEXT mode, press the **MENU** button to display the menu as shown on page 16, and press the **▲** **▼** cursor buttons to select the **Picture** option, then press the **ENTER** button to display the **Picture** menu as shown on the right.

Press the **▲** **▼** cursor buttons to select the **Contrast** option, then press **◀** **▶** cursor buttons to adjust the contrast as shown on the right.

In TELETEXT mode, the TV will exit from this mode when it enters the **Audio**, **Timer** or **Function** menu.



ASPECT MODE

You may set different aspect modes to view the image with different signal formats.

【TV P.Size】

This function is available for conventional TV broadcast (RF) signal input. When other non RF signals are received, this function is not available and the size of the picture may not vary though **TV P.Size** can be set. This is normal.

1. When conventional TV broadcast (RF) signal is received

Follow the steps on page 20, 21 to enter the menu, then access the **Function** menu and select the **TV P.Size**. Press the   cursor buttons to change between three different modes including **16:9**, **4:3** and **Expanded**.

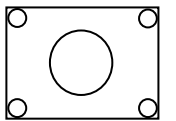
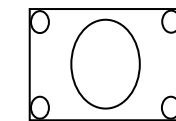
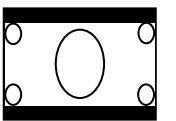
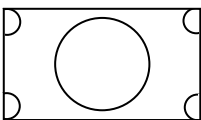
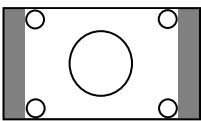
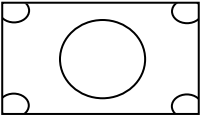
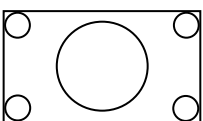
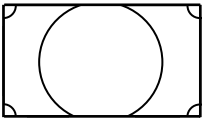
● If the **P.SIZE** button is pressed, the aspect modes will switch between six different modes, **《16:9》**, **《16:9Zoom》**, **《4:3》**, **《Expanded》**, **《4:3Zoom1》** and **《4:3Zoom2》**.

● When you press the **P.SIZE** button, the aspect mode will change to **《16:9》**, **《16:9Zoom》**, **《4:3》**, **《Expanded》**, **《4:3Zoom1》** or **《4:3Zoom2》** mode. However, if you change program No. or power on the TV, the aspect mode will automatically return to the mode that you set in **TV P.Size** option.




2. When video, s.video or non HD component signal is received

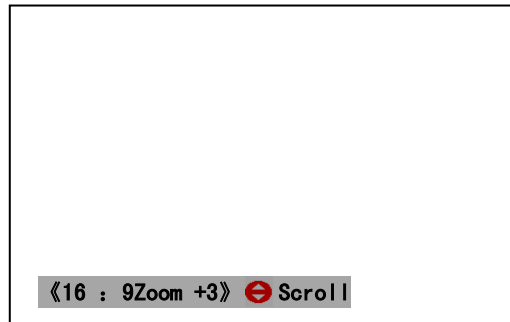
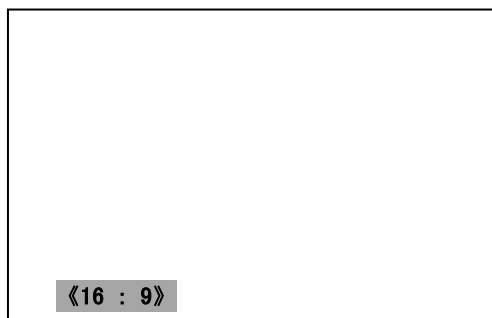
Press the **P.SIZE** button to switch between six different modes, **《16:9》**, **《16:9Zoom》**, **《4:3》**, **《Expanded》**, **《4:3Zoom1》** and **《4:3Zoom2》**.

Please see the following on each of six modes for details.

		Signal sources			
		For example: Conventional TV broadcast format	For example: widescreen cinema	For example: signal transformed from HD	For example: signal transformed from HD
Suggested aspect mode	《16 : 9》				
	《16 : 9Zoom》				
	《4 : 3》				
	《Expanded》				
	《4 : 3Zoom1》				
	《4 : 3Zoom2》				

ASPECT MODE

- To switch aspect mode, please press the **P.SIZE** button, the TV will display the corresponding aspect mode momentarily at the lower part of the screen. For example, set the current aspect mode to 《16:9》 as shown at the lower left side. If 《16:9 Zoom》 is set as shown at the lower right side, you can press the   cursor buttons to adjust the display position up and down before the words “《16 : 9Zoom +3》  Scroll” disappear as shown at the lower right side. Likewise, the function is available in 《4:3Zoom1》, 《4:3Zoom2》 or 《Expanded》 mode.

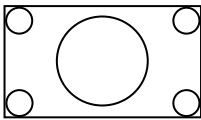
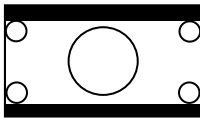
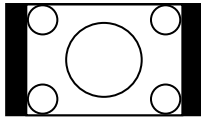
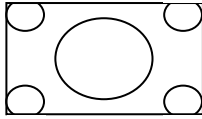
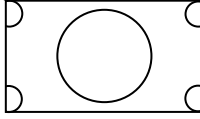


- If you change program No. or power on the TV, the aspect mode will not change.

3. When HD component signal is received

- Press the **P.SIZE** button to switch between three different modes, 《16:9》, 《Expanded》 and 《16:9Zoom》.
- If you change program No. or power on the TV, the aspect mode will return to the mode of 《16:9》.



Please see the following on each of three modes for details.

		Signal Sources		
		HD Signal	HD Signal	HD Signal
Suggested aspect mode	《16 : 9》			
	《Expanded》			
	《16 : 9Zoom》			

ASPECT MODE

【Auto P.Size】

The **Auto P.Size** is designed for HDMI input.

Follow the steps on page 20, 21 to enter the menu, then access the **Function** menu and select the **Auto P.Size** option. Press the   cursor buttons to change between **On** and **Off**.

1. With the signals such as 576i, 576p, 480i and 480p from the HDMI input of **INPUT1**

● Set the **Auto P.Size** option to **Off**

To press the **P.SIZE** button, the aspect mode will switch between six different modes, 《16:9》, 《16:9Zoom》, 《4:3》, 《Expanded》, 《4:3Zoom1》 and 《4:3Zoom2》. If you change program No. or power on the TV, the aspect mode will not change.

● Set the **Auto P.Size** option to **On**

To press the **P.SIZE** button, the aspect mode will switch between six different modes, 《16:9》, 《16:9Zoom》, 《4:3》, 《Expanded》, 《4:3Zoom1》 and 《4:3Zoom2》.

There are three cases as shown below.

1) The aspect ratio of HDMI signal is **4:3**

If you change program No. or power on the TV, the aspect mode of the TV will not change.

2) The aspect ratio of HDMI signal is **LETTER**

If you change program No. or power on the TV, the aspect mode of the TV will automatically return to the mode of 《4:3Zoom1》.

3) The aspect ratio of HDMI signal is **16:9**

If you change program No. or power on the TV, the aspect mode of the TV will automatically return to the mode of 《16:9》.

2. With the signals such as 1080i and 720p from the HDMI input of **INPUT1**

To press the **P.SIZE** button, the aspect mode will switch between three different modes, 《16:9》, 《16:9Zoom》 and 《Expanded》. If you change program No. or power on the TV, the aspect mode of the TV will return to the mode of 《16:9》.

Notes:

1. In multi picture, pressing the **P.SIZE** button does not function.
2. Do not watch TV at non full screen, as this may cause damage to your PRT.
3. Using this special function (aspect mode) to change the size of image displayed (i.e., change the ratio of height and width) for the purpose of public release or some commercial interests may infringe the copyright law.

OTHER FUNCTIONS

AV NET button

Press the **AV NET** button to turn **AV NET** menu on or off.

Refer to page 42-52.

AUDIO button

Press the **AUDIO** button to switch the sound mode as shown below:

Theater→Music→Narration→Favorite



PICTURE button

Press the **PICTURE** button to switch the picture mode as shown below:

Dynamic→Natural→Theater→Favorite



DVD buttons

With this remote control unit, you can use it to operate the selected brands of DVD players by pressing the following buttons on this remote control unit simultaneously.

Example

To operate HITACHI DVD player, press and hold the **RECALL** button, followed by the ① button.

Brands of DVD Player	Press
HITACHI	RECALL , ①
PIONEER	RECALL , ②
PANASONIC	RECALL , ③
TOSHIBA	RECALL , ④
PHILIPS	RECALL , ⑤
JVC	RECALL , ⑥
SAMSUNG	RECALL , ⑦
SONY	RECALL , ⑧
RCA	RECALL , ⑨
MITSUBISHI	RECALL , ⑩
ONKYO	RECALL , INDEX
ZENITH	RECALL , MODE
ORITRON	RECALL , SUB
SKYWORTH	RECALL , REVEAL
BBK	RECALL , TV/TEXT
SHINCO	RECALL , CANCEL

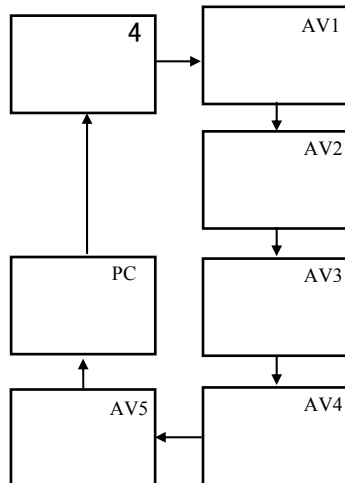


Note: Not all models of the listed brands can be operated using this remote control unit.

OTHER FUNCTIONS

TV/VIDEO button

Press the **TV/VIDEO** button to select the input mode.



RECALL button

Press the **RECALL** button to display the program No. or AV No. and the related information.

Pressing the **RECALL** button again, the display will disappear.

① When receiving in the TV mode:

A few seconds later A few seconds later



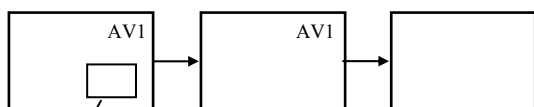
Picture: Favorite
Audio : Favorite
Scan : 100Hz
P. Size : 4:3

AUDIO MODE

- STEREO
- ▽ MONO
- I MAIN
- II SUB

② When receiving in the AV mode:

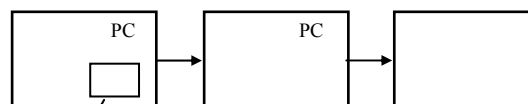
A few seconds later A few seconds later



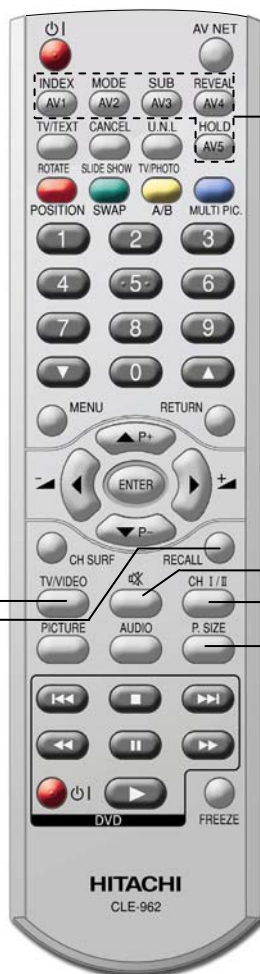
Picture: Favorite
Audio : Favorite
Scan : 100Hz
P. Size : 4:3

③ When receiving in the PC mode:

A few seconds later A few seconds later



Audio : Favorite
Format : VGA

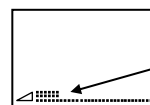


AV DIRECT SELECTOR buttons

Press the AV1~AV5 buttons to select one of them directly.

MUTE button

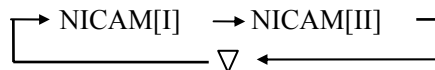
The sound is muted by pressing the button. To release the muting, press the button again or press the **Volume up** button.



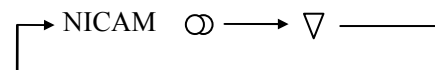
Muting is indicated in purple.

CH I/II button

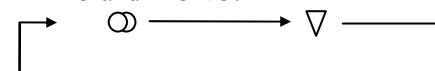
Mode will exchange among I (MAIN), II(SUB) and FM(MONO) when bilingual broadcast is being received.



When stereo broadcast is being received, mode will exchange between STEREO and MONO.



When A2 stereo broadcast is being received, mode will exchange between STEREO and MONO.



P.SIZE button

Press the **P.SIZE** button to switch the aspect mode. Refer to page54-56.

OTHER FUNCTIONS

HD SIGNAL THROUGH MODE

This TV incorporates a **HD** signal through mode to display more actual **HD** picture. When receiving **HD** signal, you can switch between the **HD** signal through and **HD** signal non-through modes to obtain optimum picture.

To access **HD** signal through mode, please follow the following procedures:

1. Input **HD** signal to component terminals (Y, P_B/C_B, P_R/C_R) of **INPUT1** (or **HDMI INPUT1**) or **INPUT2**.

Note: **HD** signal through mode is only for 1080i/50Hz and 1080i/60Hz. It is not available for other **HD** signal formats (for example: 720p/60Hz).

2. Set the **Dynamic Contrast** and **Color Manager** in the **Picture** menu to **Off**, and set the **Scan Mode** in the **Function** menu to **HD**.

Note: If you set the **Dynamic Contrast** or **Color Manager** to **On**, or you do not set **Scan Mode** to **HD**, it will exit from **HD** signal through mode.

3. Set the aspect mode to **《16:9》** by pressing the **P.SIZE** button.

Note: When the aspect mode is set to **《Expanded》** or **《16:9 Zoom》**, it will exit **HD** signal through mode.

Notes:

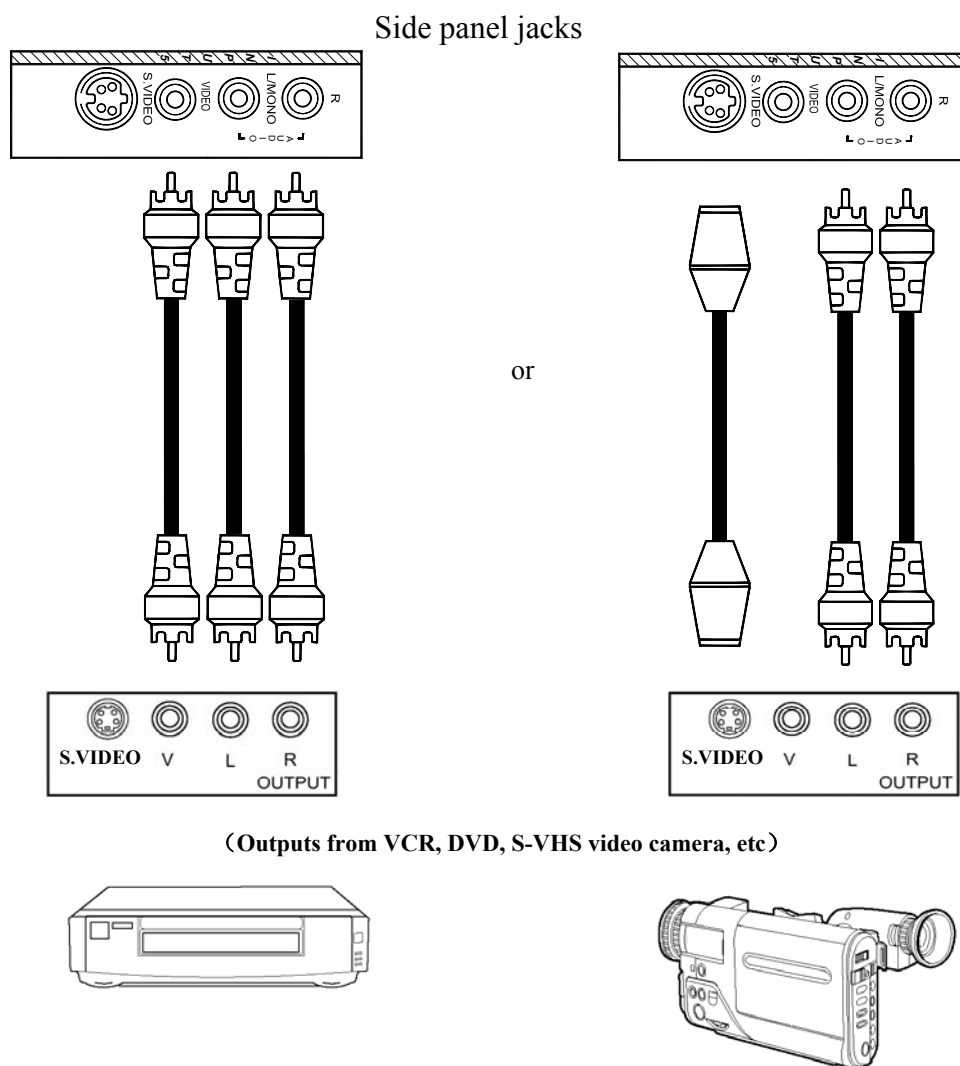
1. When **HD** signal through and non-through mode are swapping, the picture will become black instantly. This is normal.
2. In this mode, the multi pictures displayed will be in non-through mode when using **Multi Picture** function. Exit from **Multi Picture** mode, the TV will return to **HD** signal through mode.

CONNECTION WITH OTHER EQUIPMENT

Jacks and connections of side panel

The side panel jacks are provided to allow you to conveniently connect a camcorder, VCR, PC, etc.

【The typical connection of video camera, VCR, etc.】

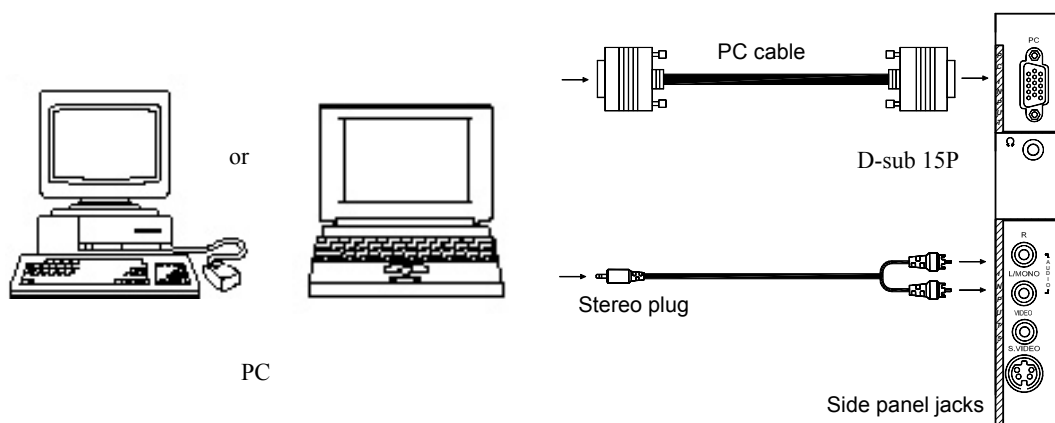


Notes:

1. Insert connection cord plugs completely when connecting to side panel jacks, and ensure that they are properly connected. S.VIDEO and VIDEO input jacks at the side panel cannot be used at the same time, or else, the playback picture may be abnormal. Thus, before you connect the cable to S.VIDEO jack, please check that VIDEO jack is not connected, and vice versa.
2. If your equipment has S.VIDEO output, please use S.VIDEO cable instead of the standard video cable.
3. If your equipment has a mono sound output, please insert the audio cable into the left audio (L/MONO) jack of your TV.

CONNECTION WITH OTHER EQUIPMENT

【The typical connection of PC input】



Explanations:

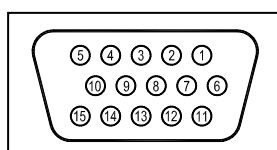
1. This TV supports PC with the specification of VESA 640×480@60Hz, VESA 800×600@60Hz or VESA 1024×768@60Hz.
2. Please connect the PC cable as shown above. Turn on the TV (and press the **TV/VIDEO** button to switch the TV to PC mode), follow by the PC. Some types of PC will be set to one of modes as mentioned above automatically. If your PC cannot be set automatically, please set it manually. When disconnecting, please turn off the PC power, then turn off the TV power switch and take off the PC cable.
3. In some cases, the PC maybe cannot display with the TV together.
4. The PC input terminal does not supply the audio signal. Please connect the audio output jack of PC to audio input jacks of **INPUT5**.
5. Some PC cannot connect with this TV.
6. This TV is not a professional monitor, so you may find some differences on the display of the TV when compared with the monitor.
7. This TV is not supplied with other equipment and cable as shown above.
8. The TV will exit PC mode automatically when entering the **Timer**, **Function** or **Setup** menu.
9. In PC mode, press the **P.SIZE** button to display as shown on the right, you can press the cursor buttons to adjust the display position up, down, left or right.

Note:

Avoid displaying still images on TV screen for a long time, otherwise, the still images can cause permanently ingrained on the PRT.



PC INPUT pin layout

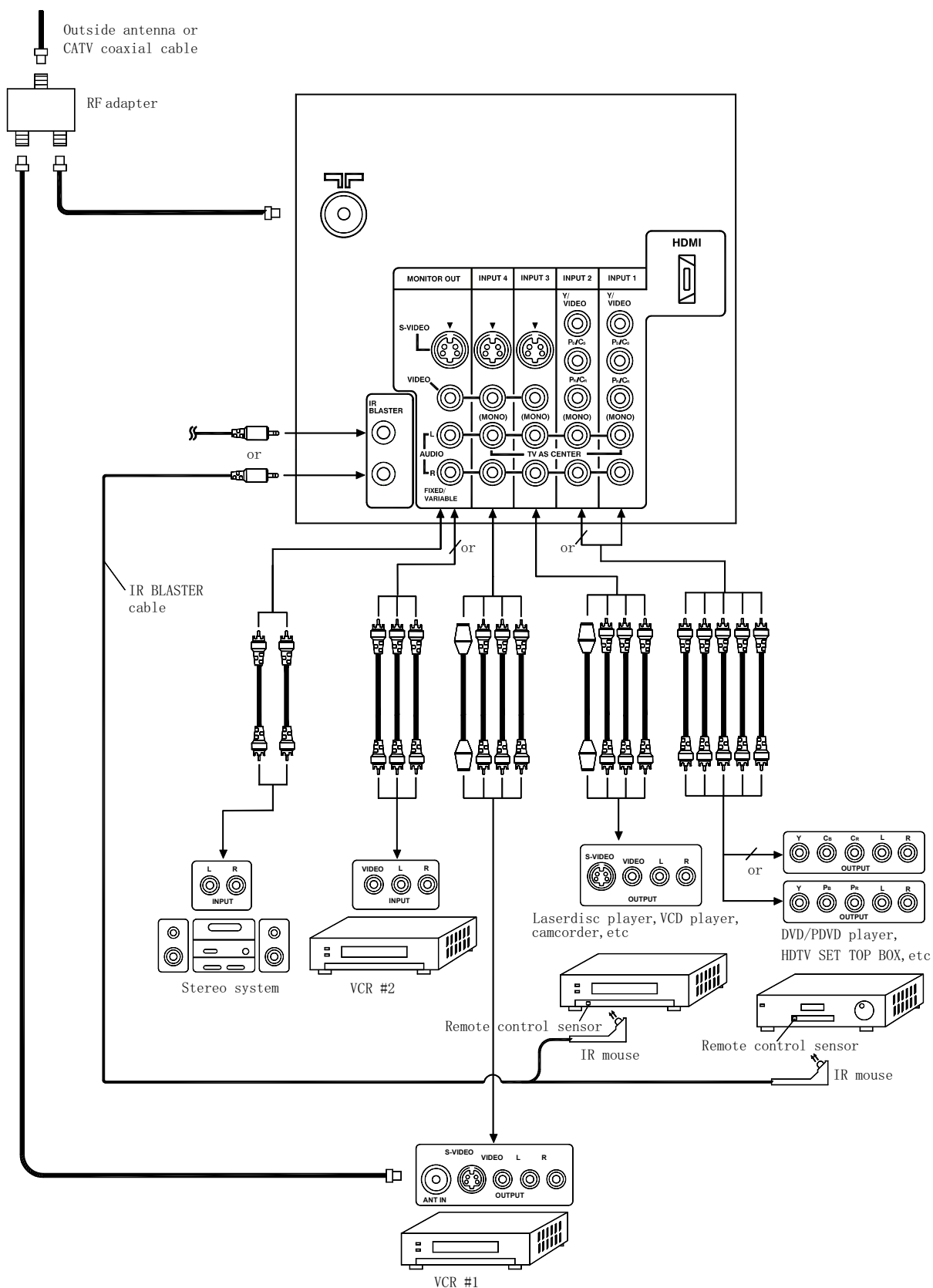


Pin	Name	Pin	Name	Pin	Name
(1)	R	(6)	GND	(11)	NC
(2)	G	(7)	GND	(12)	SDA (DDC)
(3)	B	(8)	GND	(13)	H SYNC
(4)	NC	(9)	NC	(14)	V SYNC
(5)	GND	(10)	GND	(15)	SCL (DDC)

CONNECTION WITH OTHER EQUIPMENT

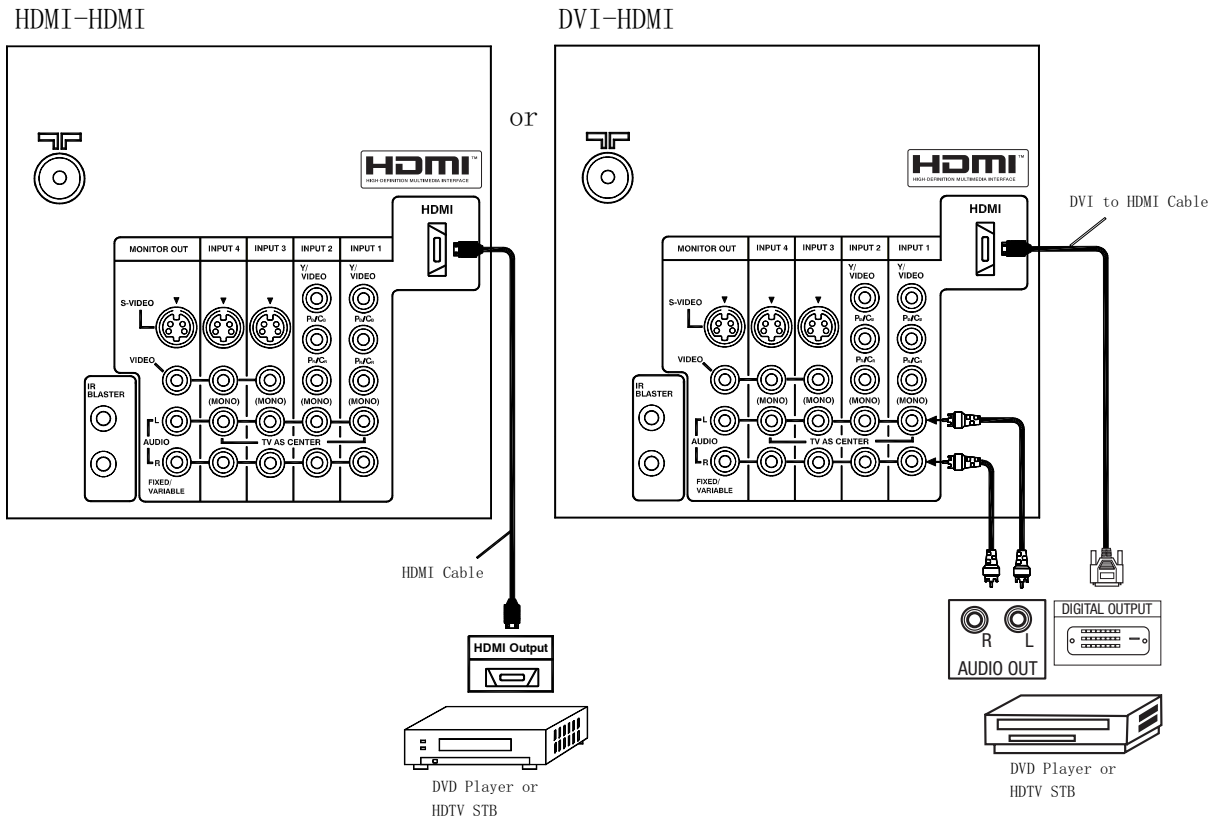
Jacks and connections of rear panel

【The typical connection of rear panel 1】



OTHER FUNCTIONS

【The typical connection of rear panel 2】



About HDMI

HDMI is the next-generation all digital interface for consumer electronics. HDMI enables the secure distribution of uncompressed high-definition video and multi-channel audio in a single cable. Because digital television (DTV) signals remain in digital format, HDMI assures that pristine high-definition images retain the highest video quality from the source all the way to your television screen.



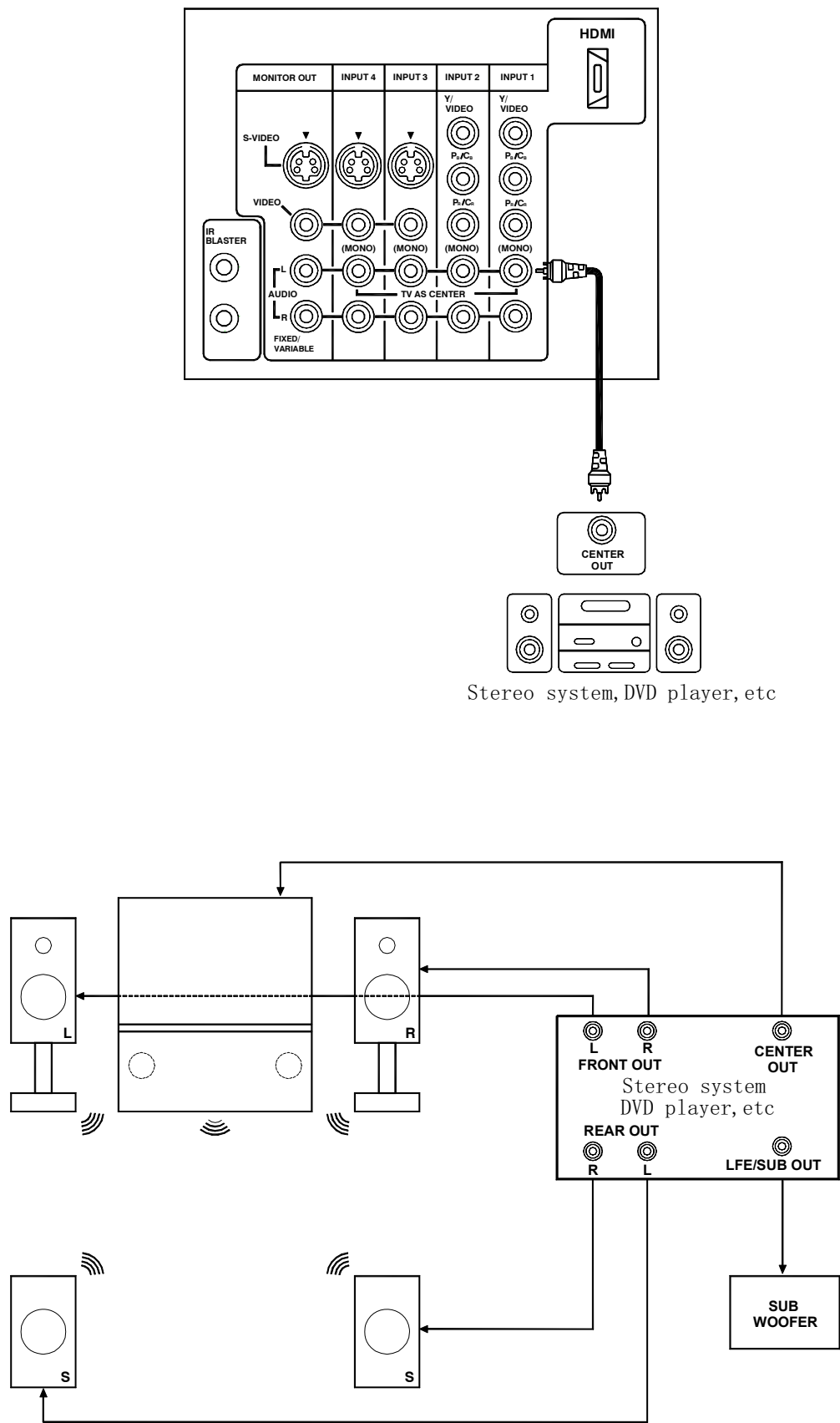
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Use the HDMI input for your external devices such as set-top boxes or DVD players equipped with an HDMI output connection as shown on the top.

- Notes:**
1. The HDMI input is not intended for use with personal computers.
 2. Only formats such as 1080i, 720p/60Hz, 576i, 576p, 480i and 480p are available for HDMI input.
 3. The HDMI input on **INPUT1** contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents.
 4. Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set-top box or DVD player to the HDMI input on the TV set as shown above. When using a component with DVI output, you also have to connect the AUDIO OUT (R/L) of the component to the AUDIO (R/L) of **INPUT1**.

CONNECTION WITH OTHER EQUIPMENT

【The typical connection of TV AS CENTER】



CONNECTION WITH OTHER EQUIPMENT

About the jacks and connections of rear panel

1. Refer to the operation manual of your electronic equipment for additional information on connections.
2. If your device has only one audio output (mono sound), please connect it to the left channel jack (MONO/L).
3. Audio and video signal from the same source should be connected to the same group of terminals. Do not mix them.
4. Terminals (Y/VIDEO, P_B/C_B, P_R/C_R) in **INPUT1** and **INPUT2** are used to connect component outputs of HDTV STB, DVD, PDVD, etc. Y/VIDEO input terminal can also be used as the standard video terminal.
When you use Y/VIDEO, P_B/C_B, P_R/C_R terminals to connect component signals, press the **RECALL** button on the remote control unit to show the characters **COMPONENT** and **AV1** or **AV2** on the top right corner of the screen, which indicates that you are using component terminals to receive signals. However, when you use Y/VIDEO terminal instead of Y/VIDEO, P_B/C_B, P_R/C_R terminals to receive video signal, only the character **AV1** or **AV2** will appear on the top right corner of the screen.
The HDMI input on **INPUT1** can be used to connect your external devices equipped with an HDMI output. When the HDMI on INPUT1 is connected, press the **RECALL** button on the remote control unit to show the characters **HDMI** or **DVI** and **AV1** on the top right corner of the screen, which indicates that you are viewing the program through the HDMI on **INPUT1**.
Note: When the HDMI input on **INPUT1** is used, please do not connect terminals (Y/VIDEO, P_B/C_B, P_R/C_R) on **INPUT1**.
5. If your device has s-video signal output, please use s-video signal instead of the standard video signal.
If there are signals input from the same group of S-VIDEO and VIDEO terminals, the TV will receive signal from S-VIDEO and the characters **S** and **AV3** or **AV4** will appear on the top right corner of the screen by pressing the **RECALL** button, which indicates that you are using S-VIDEO terminal to receive signals.
6. (VIDEO) MONITOR OUT terminal outputs video signal receiving from RF, S-VIDEO or VIDEO terminal to external equipment. When receiving component signals (Y, P_B/C_B, P_R/C_R) or HDMI signal, there is no output from (VIDEO) MONITOR OUT terminal.
7. (S-VIDEO) MONITOR OUT terminal outputs S-VIDEO signal receiving from S-VIDEO inputs to external equipment. When receiving signals from RF, VIDEO, Y, P_B/C_B, P_R/C_R terminals or HDMI, there is no output from (S-VIDEO) MONITOR OUT terminal.
8. (FIXED/VARIABLE AUDIO) MONITOR OUT terminals provide fixed or variable audio level output to external stereo system.
9. TV AS CENTER input jacks
These jacks are for stereo amplifiers with center signal output capability. This feature allows the TV speakers to be used as a center speaker.
10. IR BLASTER output jacks
Refer to page 42-52 for the use of **AV NET** function through IR BLASTER output jacks.

ADDENDA

A guide to simple problem solving

- Before calling up the service personnel, please check the following chart for a possible cause to the problem you are encountering.

Symptom	Possible causes
No picture,no sound,power/standby indicator is OFF.	• The power cord is not plugged in.
No picture,no sound,power/standby indicator is ON.	• The TV is in standby mode.
No sound	• The volume control is set to minimum. • The Speaker option in Setup menu is set to Off .
Twist image and poor sound	• The antenna signal is too weak or too strong. • The TV is not tuned correctly.
Poor brightness, color or tint	• The contrast, brightness, color or tint may be misadjusted.
Snowy picture	• Interference from motorcycles, high-tension line, electric hair drier, personal computer or radio station.
Ghosts	• Check the direction, height or position of the antenna.
No color	• The antenna signal is too weak. • Color System or Sound System is not set properly.
Remote controller does not work.	• The batteries in the remote controller may be exhausted. • The batteries may be improperly installed. • There is obstruction between the remote controller and the TV.

HITACHI Projection Television incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal power surges.

If your TV appears **A LOSS OF POWER**, please follow the following procedure:

1. Press the **POWER** button once.
2. If there is still no power, wait for 30 seconds and press the **POWER** button again.
3. If there is still no power, unplug the power cord from the wall outlet. Wait for 30 seconds and plug the power cord in. Press the **POWER** button again.

The protective technology should provide you years of lasting entertainment from your HITACHI Projection Television.

The following phenomena are not failures:

- (1) The picture takes a while to appear on the screen when the power is on.
- (2) The cabinet clicks. The clicking is a creaking sound produced when the cabinet expands or contracts due to changes in temperature.
- (3) Unevenness in color sometimes develops in part of the screen. Such unevenness in color may occur depending upon the nature or setting of the picture. The proper color may be restored by reducing the contrast or adjusting other settings.
- (4) The TV set can generate sound distortion in external devices such as a radio. Please place the radio equipment away from the TV set.

Accessories

No.	Description	Quantity	C47-WD8000	C57-WD8000
1	Instruction manual	1	Yes	Yes
2	Remote control unit (CLE-962)	1	Yes	Yes
3	Battery (For CLE-962)	2	Yes	Yes
4	IR BLASTER cable	2	Yes	Yes
5	Caster holder	4	Yes	Yes
6	Antenna adapter	1	Yes	Yes

ADDENDA

Specifications

Model		C47-WD8000				C57-WD8000			
Screen size		119cm				145cm			
Power supply		Refer to the values as indicated on the rating label pasted at the back of the TV set.							
Power consumption									
Reception system	RF/VIDEO	PAL B. G/I/D. K							
		SECAM B. G/D. K							
		NTSC 50							
		M/NTSC							
Reception system	COMPONENT/HDMI	NTSC3. 58-5. 5/6. 0/6. 5							
		NTSC4. 43-5. 5/6. 0/6. 5							
		PAL/SECAM 60							
		Total scan lines	1125i	750p	625p	625i	525p	525i	
		Active scan lines	1080i	720p	576p	576i	480p	480i	
		Vertical frequency (Hz)	50/60	60	50	50	60	60	
Frequency range		44MHz-863 MHz							
Antenna input impedance		75Ohm non balance type							
Speaker		Φ 13×2 , Φ 5×2							
Sound output		20W×2							
Comb filter		3L (PAL) /3D (NTSC)							
Digital convergence		Yes				Yes			
Magic focus		Yes				Yes			
Perfect volume		Yes				Yes			
NICAM/A2		Yes				Yes			
BBE		Yes				Yes			
SRS		Yes				Yes			
P in P		Yes				Yes			
Teletext		Yes				Yes			
S-VIDEO INPUT		1 (side) , 2 (rear)				1 (side) , 2 (rear)			
VIDEO INPUT		1 (side) , 4 (rear)				1 (side) , 4 (rear)			
COMPONENT INPUT (Y, P _B /C _B , P _R /C _R)		2 (rear)				2 (rear)			
HDMI INPUT		1 (rear)				1 (rear)			
BRIDGE MEDIA		Yes				Yes			
PC INPUT		Yes				Yes			
AUDIO INPUT		1 (side) , 4 (rear)				1 (side) , 4 (rear)			
MONITOR OUT		1 (rear)				1 (rear)			
HEADPHONE OUTPUT		1 (side)				1 (side)			
IR BLASTER OUT		2 (rear)				2 (rear)			
FIXED/VARIABLE AUDIO OUT		1 (rear)				1 (rear)			
Shielding		Yes				Yes			
Weight		68Kg				84. 5Kg			
Dimension (mm) (width×height×depth)		1121mm×1223mm×485mm				1344mm×1412mm×530mm			

Note: Specifications may be subject to change without notice for improvement.

HITACHI

Inspire the Next

Exemptions

- Hitachi is not liable for any damage caused by natural calamities, uses by third person, accidents, owner's intentional misuse, or uses in other improper conditions.
- Hitachi is not liable for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or misuse of product.
- Hitachi is not liable for any damage caused by neglect of the instructions described in the instruction manual.
- Hitachi is not liable for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.